www.dektec.com

Catalogue 2011 / 2012

www.dektec.com

Content

Introduction

Enabling PCs for Broadcast 04
A Short History 04
Organisation 05
What's New in 2010 05

PCI Cards

DTA-105 06
DTA-107S2 07
DTA-111 08
DTA-112 09
DTA-115 10
DTA-Plus 11
DTA-116 12
DTA-117 13
DTA-145 14
DTA-160 15

PCI Express

DTA-2107 16
DTA-2111 17
DTA-2135 18
DTA-2136 19
DTA-2137 20
DTA-2139 21
DTA-2142 22
DTA-2144 23
DTA-2145 24
DTA-2148 25
DTA-2152 26
DTA-2160 27

USB-2 Adapters

DTU-205 28
DTU-215 29
DTU-225 30
DTU-245 31

Network Appliances

DTE-3100 32
DTE-3114 33
DTE-3120 34
DTE-3137 35
DTE-RCK1 and DTE-STAND 36

OEM Modules

DTM-3200 37

Applications

DTC-300 StreamXpress 38
DTC-305 XpressSim 39
DTC-315 DtEncode 40
DTC-320 StreamXpert 41
DTC-325 DtGrabber+ 42
DTC-330 DtTV 43
DTC-335 SdEye 44
DTC-342 T2Xpert 45
DTC-343 C2Xpert 46
DTC-345-DVB+ 47
DTC-378 T2Xpress 48
DTC-379 C2Xpress 49
DTC-700 MuxXpert 50
DTC-706 MuxXpert API 51
DTC-720 Xpect 52

Software Development Kit

DTAPI 53

Sales

Distributors 54
Open Pricing 54
OEM 54
Warranty 54

Enabling PCs for Broadcast

Innovation distinguishes between a leader and a follower.

Steve Jobs

DekTec manufactures PC add-on cards, USB- and IP devices, and complementary software tools for the professional digital-television market. DekTec devices can be used in three ways:

1. As Test & Measurement device;

2. To build broadcast infra-structure;

3. As OEM component in your product.

software to successfully deploy PCs in digital-television solutions. We are pleased to see that our products are widely deployed by virtually every company operating in the digital-television field. The future looks bright, with a roadmap loaded with exciting new products.

Sito Dekker

DekTec's core premise is that the astonishing advances in PC technology have enabled the creation of applications with real-time functionality never thought possible. DekTec supplies the missing pieces to build complete PC-based applications: interface adapters to route digital-TV signals in and out of the PC, and high-performance software to perform the signal processing.
The economy of scale provided by the PC platform and by DekTec's multi-purpose interface devices and software generate an exceptional price to performance ratio.

Consequently it is our mission to provide digital-TV professionals with innovative, best-in-class hardware and

A Short History

DekTec Digital Video was founded in 2000 by two engineers coming from Philips Digital Video Systems, Sito Dekker and Maarten Ghijsen, currently CEO and Head of Development of DekTec.

DekTec's first products, DVB-ASI and DVB-SPI output adapters for PCI bus, were launched in 2001, together with the StreamXpress playout software. A steady stream of new PCI, PCI Express and USB devices followed. In 2004, the first USB device in the FantASI family was introduced, along with StreamXpert transport-stream analyser. Immediately, these won prestigious industry awards at NAB and IBC.

StreamXpress and StreamXpert have evolved into the industry-standard toolset for digital-TV field work.

In addition to the growing range of transport-stream adapters, DekTec has been at the forefront of PCI and USB modulators. This product line started in 2004 with the DTA-107 satellite modulator, followed by several VHF/UHF modulators. In 2010 the modulator line was enriched with the DTU-215 VHF/UHF modulator for USB. The DTU-215 is a summit of technology, featuring an all-digital modulator in a compact slick case, taking its power from the USB bus, while supporting the widest range of modulation standards available from a single manufacturer.

At the software front, DekTec licensed software-multiplexing technology from Philips and expanded it to create the most versatile multiplexing platform in the market, the MuxXpert. In 2005 work was started to create an innovative monitoring solution from the ground up. The result, Xpect, was brought on the market at the end of 2009, immediately winning a Pick Hit award at NAB 2010.

An extraordinary achievement in applying software technology was completed by Fabrice Bellard, who started working for DekTec in 2006. He developed a software-defined receiver that demodulates world's most sophisticated modulation standards, DVB-C2 and DVB-T2, in real-time on a standard PC with Core i7 CPU, entirely in software starting from a sampled IF signal. These software demodulators are available commercially as C2Xpert and T2Xpert.

All in all, since the first product introduction in 2001, the hardware and software product range has grown into the complete and consistent product portfolio you can find in this catalogue and on our website www.dektec.com

Organisation

All hardware products are made in the Netherlands at two manufacturing partners. DekTec has built up a sizeable engineering and distribution force, with its head office in Hilversum, a sales office in Denver serving the North-American market and development centres in Hilversum, Eindhoven, Paris, Cambridge and Tokyo. More than 40 appointed distributors cover all regions in the world.

DekTec is a full member of DVB and actively contributing to the further development of DVB-T2 and DVB-C2 standards. DekTec is also a registered member of IABM, PCI-SIG, SMPTE, USB Forum and VSF.

What's New in 2011

- **Xpect**

  DekTec's award-winning monitoring software now supports many new features and can monitor 250+ SPTS streams on a single PC server
- **DTA-2107**

  Satellite modulator for PCI Express, with support for DVB-S2 16/32APSK, ISDB-S and I/Q sample playout
- **DTA-2139**

  An amazing twelve QAM-A/B/C receivers on a single PCI Express card
- **DTA-2148**

  Quad-port HD-SDI adapter with Genlock for PCI Express
- **DTA-2152**

  Low-profile dual-port HD-SDI card for PCI Express; Ideal for key and fill generators
- **DekTec America**

  DekTec's new office in Lafayette, Colorado is now fully operational

If you're not failing every now and again, it's a sign you're not doing anything very innovative.

Woody Allen

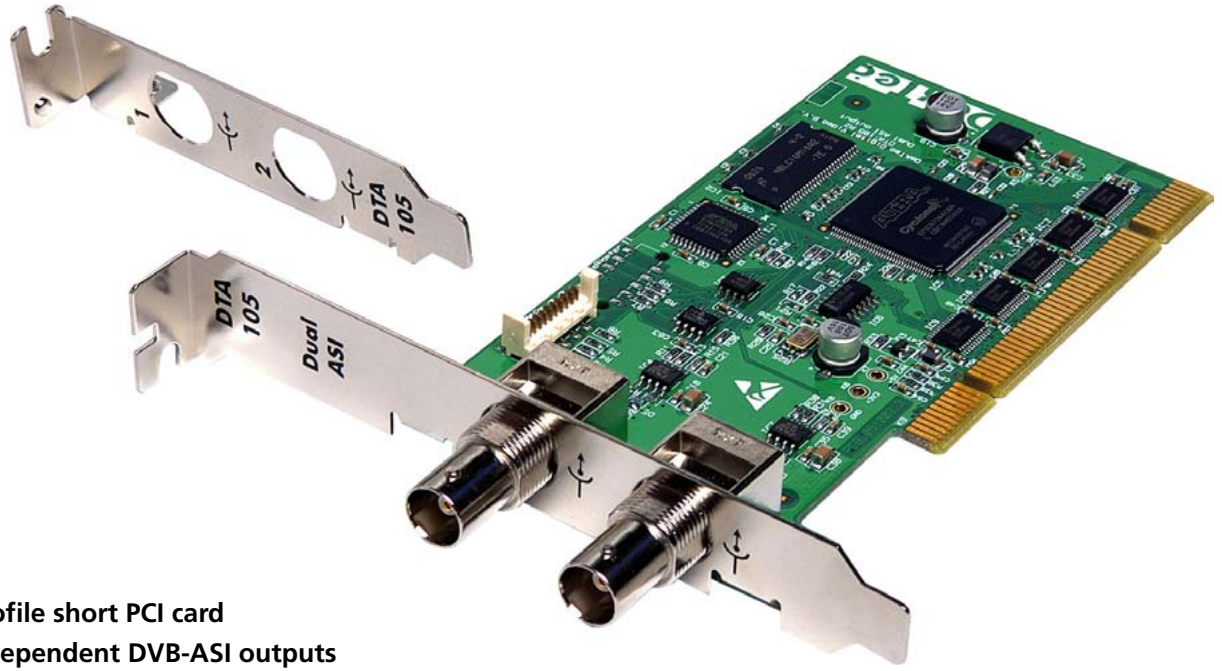
DTA-105
Dual DVB-ASI Output Adapter

Features

- Two independent DVB-ASI output channels on a low-profile PCI card
- Optional mode to slave the second output to the first, creating a single doubly-buffered output
- Programmable bitrate 0 .. 214 Mbit/s
- Dual 16-Mbytes buffers to compensate for PCI- and software latencies
- Hardware-assisted null packet insertion
- Continuous mode or burst mode
- On-board PCI Bus master for off-loading host processor
  - DMA burst-mode transfers for optimal usage of PCI Bus
  - Scatter/gather DMA for efficient handling of fragmented host memory
- Shipped with a low-profile and a standard-profile bracket
- PCI rev 2.2, 32 bit, 33 or 66 MHz bus
- Free drivers and DTAPI SDK for Windows 2k/XP/2k3, .NET, DirectShow and Linux
- Example source code for stream player

Applications

- General-purpose output adapter for PC-based applications that generate an MPEG-2 transport stream
- With DTC-300 *StreamXpress* software: MPEG-2 transport-stream test generator



Low-profile short PCI card
Two independent DVB-ASI outputs
Single-channel doubly-buffered mode

Key Attributes

Parameter	Value
Physical layer	DVB-ASI (Coax)
DVB-ASI connector	75-Ω BNC (2x)
Transmit bitrate	0 .. 214Mbit/s
Transmit bitrate resolution	<1bit/s
Transmit bitrate stability	±2ppm
Burst mode on/off	yes
Peak-to-peak maximum jitter	70ns p-p*
Packet size	188 or 204**

* In continuous mode
** Arbitrary packet size in raw mode

Related Products

Type	Description
DTA-145	Multi-purpose ASI/SDI adapter for standard PCI bus
DTA-2145	Multi-purpose ASI/SDI adapter for PCI Express

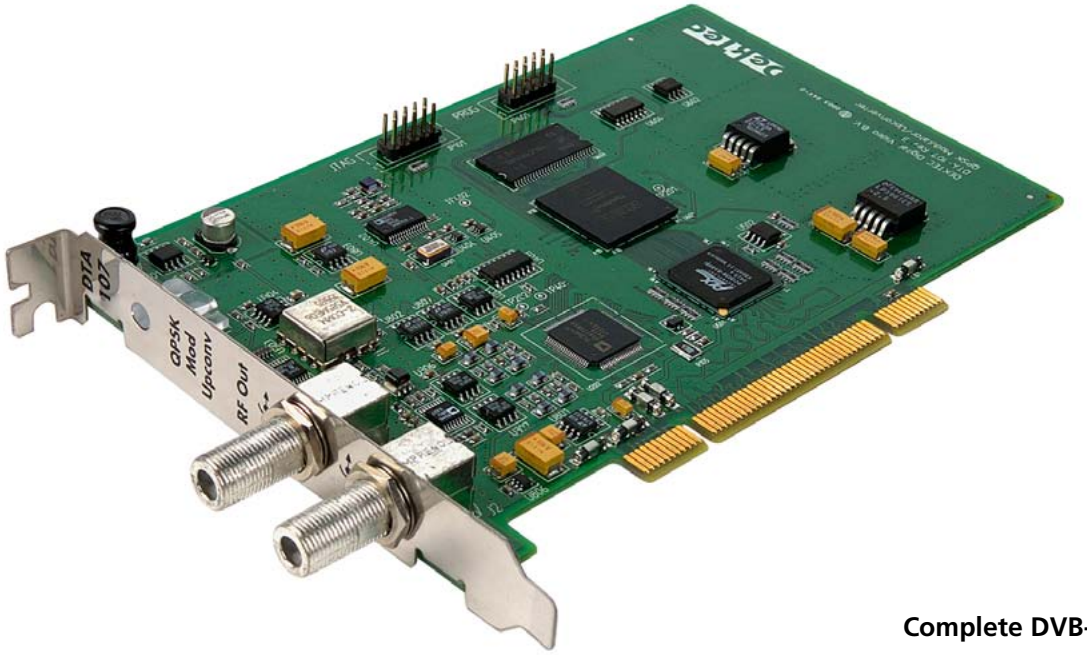
Ordering Information

Type	Description
DTA-105-SP	Dual DVB-ASI output adapter for PCI with *StreamXpress*

Back to content

DTA-107S2

DVB-S2 Modulator with L-Band Upconverter



Complete DVB-S2 modulator
L-Band upconverter 950…2150 MHz
Direct connection to DVB-S2 receiver

Features

- DVB-S2 modulator compliant to ETSI EN 302 307
- Integrated L-Band upconverter with on-board 950 .. 2150-MHz synthesiser
- Complete broadcast-services modulator with BCH encoder, LDPC encoder, bit interleaver, constellation mapper and base-band shaping filter
- Supports all DVB-S2 defined code rates: 1/4, 1/3, 1/2, 2/5, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9 and 9/10
- Can be operated in DVB-S mode
- DTA-107 can be upgraded to DTA-107S2 in the field with a simple procedure
- Free Windows software interface (DTAPI) that is fully compatible with other DekTec digital-video output adapters
- PCI rev 2.2, 32 bit, 33 or 66MHz bus

Applications

- File-based DVB-S2 stream generator with output upconverted to L-band
- DVB-S/S2 modulator replacement
- DVB-S2 output for your (OEM) application

Key Attributes

Parameter		Value
Modulation		QPSK, 8PSK
Useful bitrate range		0 .. 120Mbit/s
Symbol rate	Range	1 .. 45MBd
	Accuracy	±25ppm
	Resolution	<50mBd
RF output	Connector (2x)	F type, 75Ω
	Carrier frequency	950 .. 2150MHz
	Accuracy	±1ppm
	Roll-off factor	0.35
	Output level	-30 ±3dBm
	Spurious	>40dB
	Return loss	≥15dB

Modulation Standards

Modulation	Standard
DVB-S	EN 300 421
DVB-S2	EN 302 307
ISDB-S*	ARIB STD-B20

* Option

Ordering Information

Type	Description
DTA-107-SP	DVB-S modulator/upconverter with *StreamXpress*
DTA-107S2-SP	DVB-S2 modulator/upconverter with *StreamXpress*
DTC-372-S2	DVB-S2 option for DTA-107
DTC-373-IS	ISDB-S modulation option

Back to content

DTA-111

Multi-Standard Modulator with VHF/UHF Upconverter

Low-cost multi-standard modulator
Fixed output level
Upgradable to support new standards

Features

- Multi-standard modulator with support for most QAM-, OFDM- and VSB-based modulation standards
- Supports all constellations and modulation modes for each supported standard
- All-channel upconverter 47 .. 862MHz fully agile over VHF and UHF band
- Fixed output level of -15.0dBm for QAM and -18.0dBm for OFDM
- RF output for direct connection to the antenna input of a digital receiver
- Programming interface (DTAPI) is fully compatible with other DekTec digital-video output adapters
- PCI rev 2.2, 32 bit, 33 or 66MHz bus

Applications

- General purpose test modulator
- SMATV, hotel server, shows and exhibitions
- OEM applications

Key Attributes

Parameter	Value
Frequency range	47 .. 862MHz ±1ppm
Bandwidth	5.0 .. 8.0MHz
MER (OFDM)	≈38dB (QAM) ≈40dB (OFDM)
Connector	75-Ω F
Return loss	≥15dB (47 .. 862MHz)
Level (QAM)	-15dBm (+34dBmV)
Level (OFDM)	-18dBm (+31dBmV)
Phase noise	<-90dBc @ 10kHz
Spectral purity	>50dB (47 .. 862MHz) >90dB (muted)
PCI compliancy	r2.2, 32-bit, 33/66MHz
OS	XP/2k3/Viasta/2k8/7 Linux 2.6

Modulation Standards

Modulation	Standard
ATSC VSB	ATSC A/53E
CMMB*	GY/T 220.1/2-2006
DTMB*	GB 20600-2006
DVB-C	EN 300 429
DVB-C2*	EN 302 769
DVB-T / DVB-H	EN 300 744
DVB-T2*	EN 302 755
ISDB-T*	ARIB STD-B31
QAM	J.83 Annex A/B/C

* Option

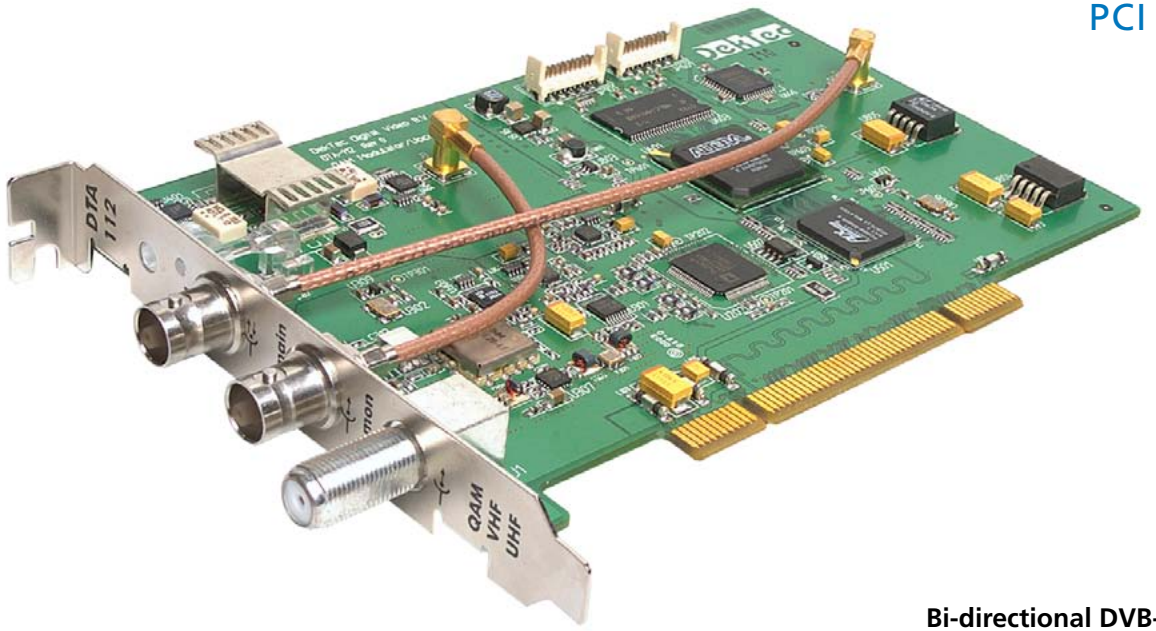
Ordering Information

Type	Description
DTA-111-SP	VHF/UHF modulator with *StreamXpress*

Back to content

DTA-112

Modulator with VHF/UHF Upconverter



Bi-directional DVB-ASI port
Programmable output level
Low-cost version of DTA-115 for ATSC, QAM, DVB-T

Features

- Supports ATSC, DVB-T/H and QAM-A/B/C
- All-channel upconverter 47 .. 862MHz covering full VHF and UHF band
- Output amplifier with programmable 0 .. 31.5dB attenuator in 0.5dB steps
- Monitor output for direct connection to the antenna input of a digital receiver
- Independent bi-directional DVB-ASI port
- Programming interface (DTAPI) is fully compatible with other DekTec digital-video output adapters
- PCI rev 2.2, 32 bit, 33 or 66MHz bus
- DVB ID 5822

Applications

- Low-cost test generator
- RF output for your (OEM) application, e.g. hotel server
- Repair of QAM set-top boxes

Key Attributes

Parameter		Value
Frequency range		47 .. 862MHz (±1ppm)
Bandwidth		5.0 .. 8.0MHz
MER		≈40dB
Main output	Connector	75-Ω F
	Return loss	≥15dB (47 .. 862MHz)
	Level	-31.5 .. 0dBm ±2dB
	Phase noise	<-90dBc @ 10kHz
	Spectral purity	>50dB (47 .. 862MHz)
Monitor output	Connector	75-Ω F
	Return loss	≥15dB (47 .. 862MHz)
	Level	-27.5dBm ±3dB
ASI	Connector	75-Ω BNC
	Return loss	≥15dB (5 .. 270MHz)

Modulation Standards

Modulation	Standard
ATSC VSB	ATSC A/53E
DVB-C	EN 300 429
DVB-T / DVB-H	EN 300 744
QAM	J.83 Annex A/B/C

Related Products

Type	Standard
DTA-111	VHF/UHF modulator
DTA-115	Multi-standard modulator with VHF/UHF upconverter

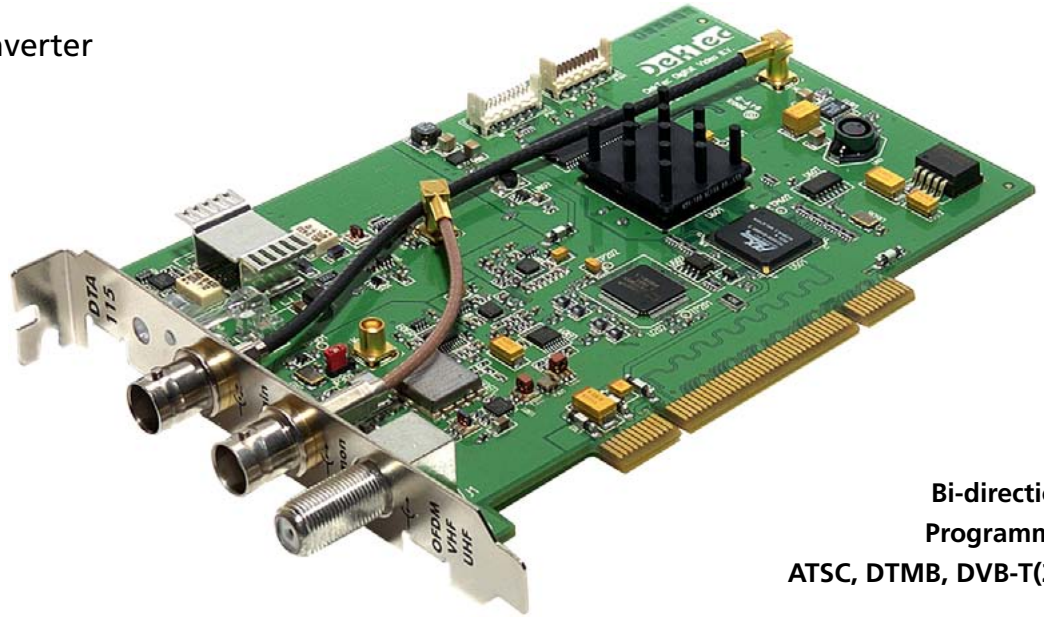
Ordering Information

Type	Description
DTA-112-SP	VHF/UHF modulator with *StreamXpress*

Back to content

DTA-115

Multi-Standard Modulator with VHF/UHF Upconverter



Bi-directional DVB-ASI port
Programmable output level
ATSC, DTMB, DVB-T(2)/H, ISDB-T, QAM

Features

- Multi-standard modulator with support for most QAM-, OFDM- and VSB-based modulation standards
- Supports all constellations and modulation modes for each supported standard
- Channel simulator available as option (DTC-305-CM *XpressSim*)
- All-channel upconverter 47 .. 862MHz covering full VHF and UHF band
- Output amplifier with programmable 0 .. 31.5dB attenuator in 0.5dB steps
- Can be used with DTA-Plus to extend output-level range to -110 .. +10dBm
- Independent bi-directional DVB-ASI port
- Programming interface (DTAPI) is fully compatible with other DekTec digital-video output adapters

Applications

- Multi-standard test generator
- Modulator replacement
- RF output for your (OEM) application

Key Attributes

Parameter		Value
Frequency range		47 .. 862MHz (±1ppm)
Bandwidth		5.0 .. 8.0MHz
MER (OFDM)		≈40dB
Main output	Connector	50-Ω BNC
	Return loss	≥15dB (47 .. 862MHz)
	Level (QAM)	-31.5 .. 0dBm ±2dB
	Level (OFDM)	-34.5 .. -3dBm ±2dB
	Phase noise	<-90dBc @ 10kHz
	Spectral purity	>50dB (47 .. 862MHz)
Monitor output	Connector	75-Ω F
	Return loss	≥15dB (47 .. 862MHz)
	Level (QAM)	-27.5dBm ±3dB
	Level (OFDM)	-30.5dBm ±3dB
ASI	Connector	75-Ω BNC
	Return loss	≥15dB (5 .. 270MHz)
PCI compliancy		r2.2, 32-bit, 33/66MHz

Modulation Standards

Modulation	Standard
ATSC VSB	ATSC A/53E
CMMB*	GY/T 220.1/2-2006
DTMB*	GB 20600-2006
DVB-C	EN 300 429
DVB-C2*	EN 302 769
DVB-T / DVB-H	EN 300 744
DVB-T2*	EN 302 755
ISDB-T*	ARIB STD-B31
QAM	J.83 Annex A/B/C

* Option

Ordering Information

Type	Description
DTA-115-SP	Multi-standard VHF/UHF modulator with *StreamXpress*
DTC-305-CM	*XpressSim* channel-modelling option

Back to content

DTA-Plus

VHF/UHF Attenuator for DTA-115 Modulator

Features

- Connect the DTA-Plus to your DTA-115 for boosting the output level range to -100 .. +7dBm
- Automatic Gain Control (AGC) for constant output signal
- Temperature compensation using an integrated temperature sensor, heater and fan control (fan included in the package)
- Support in *StreamXpress* for controlling the output level from the GUI and through remote control
- Support in DTAPI for writing custom application that require controlling the RF level over a wide range

Applications

- Min / max RF level testing
- Sensitivity analysis

LUMANTEK

Temperature compensation
Output level -100dBm .. +7dBm
StreamXpress and DTAPI support

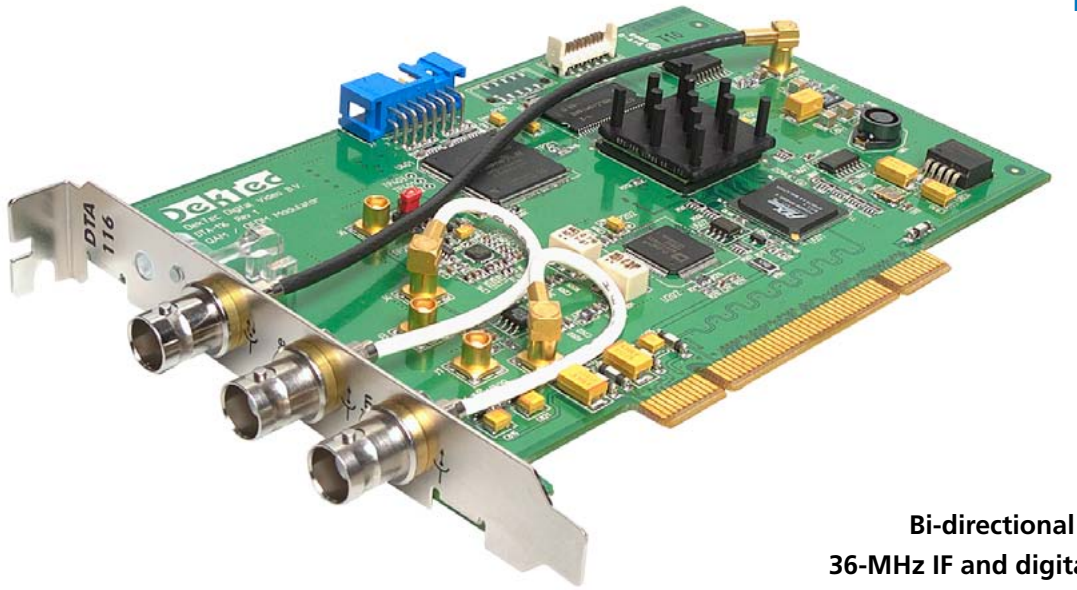
Key Attributes

Parameter	Value
Input range	-30 .. -10dBm
Output control range	-100 .. +7dBm
Output control step	0.1dB
RF output connector	50-Ω SMA
RF level accuracy	±1dB
Frequency range	50 .. 870MHz
Temperature	25 .. 60°C
Power supply current @ 12V	Typ: 640mA Max: 1000mA

Ordering Information

Type	Description
DTA-Plus	VHF/UHF booster/attenuator for use with DTA-115

DTA-116



Bi-directional DVB-ASI port
36-MHz IF and digital I/Q outputs
ATSC, DTMB, DVB-T(2)/H, ISDB-T, QAM

Features

- Multi-standard modulator with support for most QAM-, OFDM- and VSB-based modulation standards
- Supports all constellations and modulation modes for each supported standard
- Channel simulator available as option (DTC-305-CM *XpressSim*)
- Two user-configurable IF outputs; real and imaginary output facilitating quadrature upconversion
- IF outputs are lightly filtered enabling off-board high-quality filtering
- Digital baseband I+Q outputs
- Bi-directional DVB-ASI port
- Programming interface (DTAPI) is fully compatible with other DekTec digital-video output adapters
- PCI rev 2.2, 32 bit, 33 or 66MHz bus

Applications

- Digital I/Q generator
- High-fidelity modulator
- IF output for your (OEM) application

Key Attributes

Parameter		Value
Modulation bandwidth		5.0 .. 8.0MHz
MER		41dB RMS (DVB-C) 42dB RMS (DVB-T)
IF output	Frequency	36.0MHz (±1ppm)
	Connector	50-Ω BNC (2x)
	Return loss	≥20dB (5 .. 70MHz)
	Level (QAM)	-11dBm ±1dB
	Level (OFDM)	-14dBm ±1dB
	Phase noise	<-115dBc @ 10kHz <-105dBc @ 1kHz
	Spectral purity	>40dB (0 .. 1GHz)
Digital output	Connector	14-pins header
	Signal level	LVDS
	Data bus	16-bit I+Q @ 36MHz
ASI	Connector	75-Ω BNC
	Return loss	≥15dB (5 .. 270MHz)

Modulation Standards

Modulation	Standard
ATSC VSB	ATSC A/53E
CMMB*	GY/T 220.1/2-2006
DTMB*	GB 20600-2006
DVB-C	EN 300 429
DVB-C2*	EN 302 769
DVB-T / DVB-H	EN 300 744
DVB-T2*	EN 302 755
ISDB-T*	ARIB STD-B31
QAM	J.83 Annex A/B/C

* Option

Ordering Information

Type	Description
DTA-116-SP	Multi-standard modulator, IF / Digital I/Q with *StreamXpress*
DTC-305-CM	*XpressSim* channel-modelling option

Back to content

DTA-117

Multi-Standard Modulator with IF and Digital I/Q Output

Bi-directional DVB-ASI port
44-MHz IF and digital I/Q outputs
ATSC, DTMB, DVB-T(2)/H, ISDB-T, QAM

Features

- Multi-standard modulator with support for most QAM-, OFDM- and VSB-based modulation standards
- Supports all constellations and modulation modes for each supported standard
- Channel simulator available as option (DTC-305-CM *XpressSim*)
- Two user-configurable IF outputs; real and imaginary output facilitating quadrature upconversion
- IF outputs are lightly filtered enabling off-board high-quality filtering
- Digital baseband I+Q outputs
- Bi-directional DVB-ASI port
- Programming interface (DTAPI) is fully compatible with other DekTec digital-video output adapters
- PCI rev 2.2, 32 bit, 33 or 66MHz bus

Applications

- Digital I/Q generator
- High-fidelity modulator
- IF output for your (OEM) application

Key Attributes

Parameter		Value
Modulation bandwidth		5.0 .. 8.0MHz
MER		41dB RMS (DVB-C) 42dB RMS (DVB-T)
IF output	Frequency	44.0MHz (±1ppm)
	Connector	50-Ω BNC (2x)
	Return loss	≥20dB (5 .. 70MHz)
	Level (QAM)	-11dBm ±1dB
	Level (OFDM)	-14dBm ±1dB
	Phase noise	<-115dBc @ 10kHz <-105dBc @ 1kHz
	Spectral purity	>40dB (0 .. 1GHz)
Digital output	Connector	14-pins header
	Signal level	LVDS
	Data bus	16-bit I+Q @ 44MHz
ASI	Connector	75-Ω BNC
	Return loss	≥15dB (5 .. 270MHz)

Modulation Standards

Modulation	Standard
ATSC VSB	ATSC A/53E
CMMB*	GY/T 220.1/2-2006
DTMB*	GB 20600-2006
DVB-C	EN 300 429
DVB-C2*	EN 302 769
DVB-T / DVB-H	EN 300 744
DVB-T2*	EN 302 755
ISDB-T*	ARIB STD-B31
QAM	J.83 Annex A/B/C

* Option

Ordering Information

Type	Description
DTA-117-SP	Multi-standard modulator, IF / Digital I/Q with *StreamXpress*
DTC-305-CM	*XpressSim* channel-modelling option

Back to content

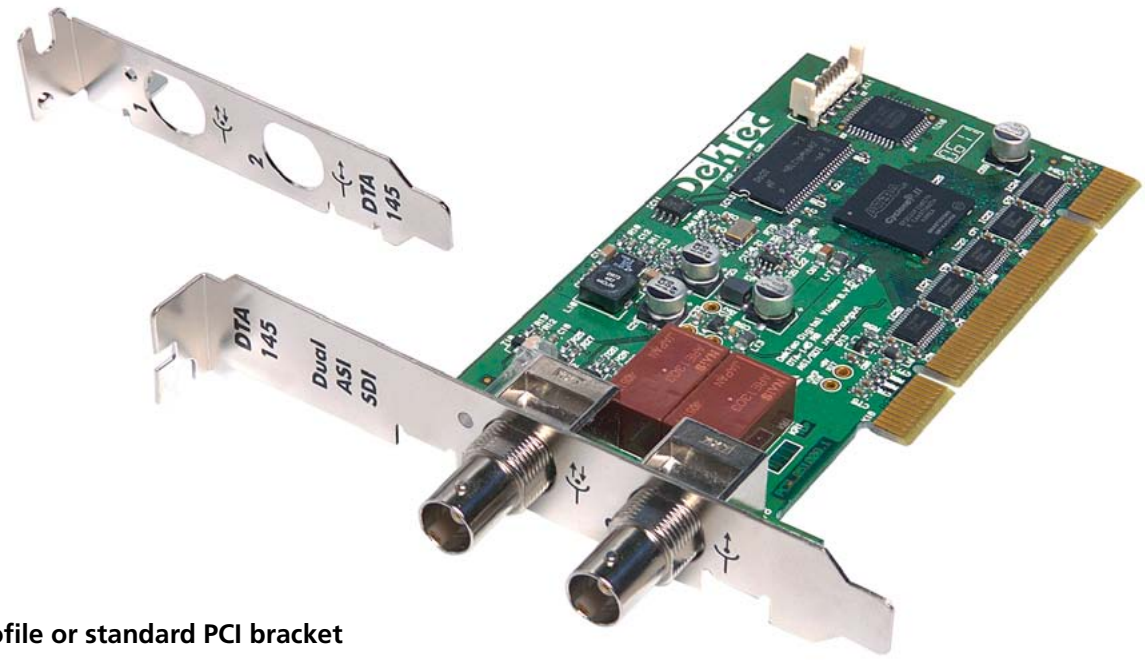
DTA-145
Dual ASI/SDI Adapter

Features

- Two BNC ports: one dedicated ASI/SDI output port and one software-selectable ASI/SDI input- or second independent output port, with status LED
- All hardware and software features found in the market place, plus more
- Watchdog-controlled input-to-output relais for redundant configurations
- Support for genlock
- Cable equalisation and inverted ASI
- Bitrate measurement and statistics
- Flexible receive modes with time-stamping, packet-sequence counting and false-sync pass through for full TR 101 290 support
- Lossless SDI Huffman encoding / decoding
- Low profile or standard PCI bracket
- Free drivers and SDK (DTAPI) for Linux, Windows XP/2k3/Vista/2k8/7 and .NET

Applications

- ASI/SDI stream station
- High-availability ASI/SDI generation
- ASI/SDI analysis or monitoring
- Universal ASI/SDI input/output adapter for PC-based applications that record, play and/or process MPEG-2 transport streams and/or SDI digital video



Low profile or standard PCI bracket
ASI/SDI input+output or dual output
Most complete feature set in the market

Key Attributes

Parameter		Value
Connector		75-Ω BNC (2x*)
Input return loss		>15dB
Hardware buffering		16MB / channel
ASI	Physical layer	DVB-ASI (coax) EN50083-9
	Bitrate range	0 .. 214Mbit/s
	Packet size	188 or 204**
SDI	Physical layer	SMPTE 259M/C
	Bitrate	270Mbit/s
	#Bits	8 or 10 bit
PCI compliancy		r2.2, 32-bit, 33/66MHz

* 1xoutput and 1xsoftware-selectable input or output
** Arbitrary packet size in raw mode

Related Products

Type	Description
DTA-2145	Dual ASI/SDI adapter for PCI Express

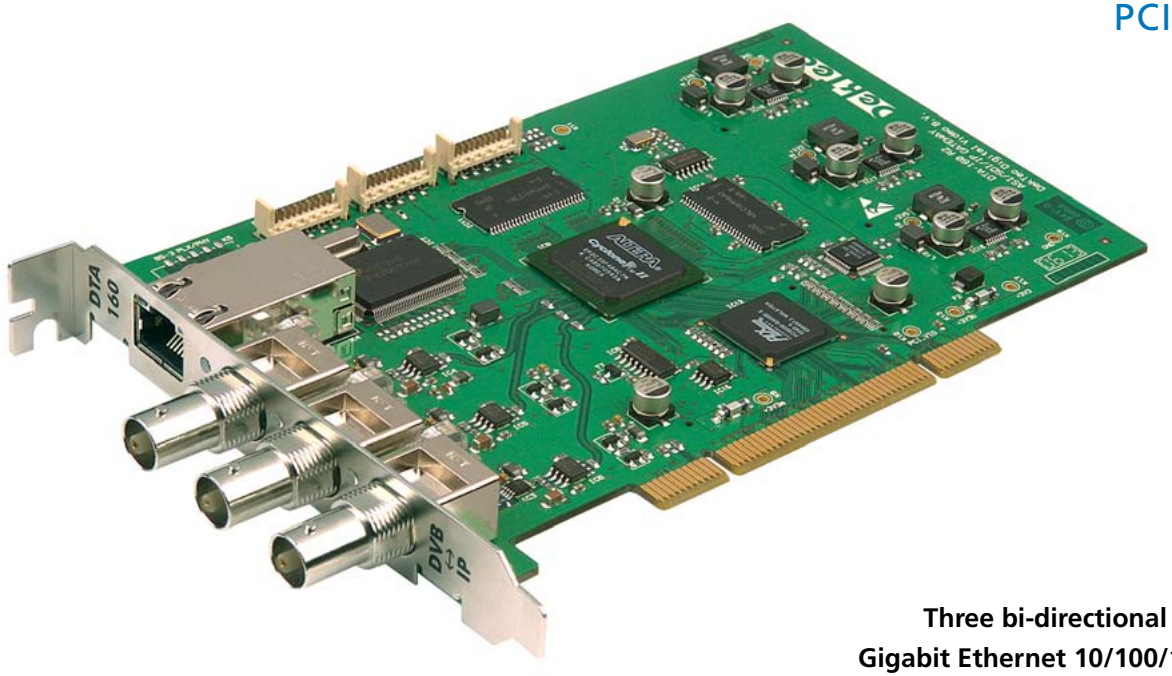
Ordering Information

Type	Description
DTA-145-SDP	Dual ASI/SDI I/O adapter for PCI Express with *DtGrabber+*, *DtTV* and *StreamXpress*
DTA-145-SY-SDP	DTA-145-SDP with *SdEye*
DTA-145-SXP	DTA-145-SDP with *StreamXpert*
DTA-145-SY-SXP	DTA-145-SDP with *SdEye* and *StreamXpert*

Back to content

DTA-160

Gigabit TSoIP and Triple ASI Ports



Three bi-directional ASI ports
Gigabit Ethernet 10/100/1000 port
Transcoding between ASI and TSoIP

Features

- Transmission and reception of transport streams over IP networks, with transcoding between ASI and IP ports
- IP encapsulation in accordance with SMPTE 2022-1 and SMPTE 2022-2
- Zero-jitter playout of multiple TSoIP streams
- ASM and SSM multicast support
- Generation of two-dimensional FEC with programmable dimensions D and L and block-aligned FEC linearization
- Re-ordering and error correction of TSoIP streams
- Time stamping of incoming IP packets to enable TSoIP jitter analysis
- Uniform software access to ASI- and TSoIP ports with DTAPI
- PCI rev 2.2, 32 bit, 33 or 66 MHz bus
- Comes with NDIS network driver

Applications

- Contribution and primary distribution over IP
- Multipurpose ASI/TSoIP stream station
- Jitter measurements of TSoIP streams
- Tunnelling ASI streams over an IP network
- General-purpose ASI and TSoIP inputs and outputs for OEM applications

Key Attributes

Parameter		Value
TSoIP	Physical layer	IEEE 802.3ab
	Data rate	10/100/1000
	Connector	RJ-45
	Maximum TS rate	600Mbit/s
	Parallel TSoIP streams	100+*
ASI	Physical layer	DVB-ASI (coax)
	Connector	75-Ω BNC (3x)
	Rx or Tx bitrate	0 .. 214Mbit/s
	Resolution	<1bit/s
Transport packets per IP		1,2,3,4,5,6 or 7
Protocol		UDP or RTP
Transcoding rate		0 .. 200Mbit/s
DVB ID		5821

* Limited only by cumulative TS rate and PC resources

Related Products

Type	Description
DTE-3100	Networked ASI output adapter
DTE-3120	Networked ASI input adapter

PC Requirements

Platform	Windows XP/2k3/Vista/2k8/7, Linux
Processor*	P4@2GHz, Core, Core 2, Core i7

* Or AMD equivalent

Ordering Information

Type	Description
DTA-160-SDP	Gigabit TSoIP and triple ASI adapter for PCI Bus with *DtTV, DtGrabber+* and *StreamXpress*
DTA-160-J-SXP	DTA-160-SDP with *DtJitter* and *StreamXpert*

Back to content

DTA-2107
Multi-Standard L-Band Modulator

PCI Express

Features

- Satellite modulator with integrated agile L-band upconverter
- DVB-S and DVB-S2 modulation with support for all constellations (incl. 16-APSK and 32-APSK) and all roll-off factors (0.20, 0.25, 0.35)
- ISDB-S modulation option with command-line multiplexer to create a valid ISDB-S stream with TMCC data from a standard Transport Stream
- Programmable output level
- AWGN inserter option
- Free Windows and Linux SDK (DTAPI) is fully compatible with other DekTec digital-video output adapters
- PCI Express x1

Applications

- With StreamXpress: Multi-purpose satellite-TV RF signal-generator for R&D, demos, exhibitions, repair
- With MuxXpert: Real-time generation of a DVB-S(2) / ISDB-S signal for single Transport Streams
- With DTAPI: Create your own OEM application that generates a satellite-TV RF signal

Complete DVB-S(2), ISDB-S modulator
Fully agile from 950 to 2150 MHz
AWGN insertion

Key Attributes

Parameter	Value
Modulation	DVB-S(2), ISDB-S, I/Q
DVB-S2 constellations	QPSK, 8PSK, 16/32APSK
Roll-off factor	0.20, 0.25, 0.35
Channel filter	256 taps
Symbol rate	0.088 .. 45MBd
Symbol rate resolution	<30mBd
Output connector	75-Ω F female
Return loss	>14dB (950 .. 2150MHz)
RF output frequency	950 .. 2150MHz
RF output level	-41.5 .. -10.0dBm
Phase noise	<-90dBc @ 10kHz
Spurious	>50dB (950 .. 2150MHz)

Modulation Standards

Modulation	Standard
DVB-S	EN 300 421
DVB-S2	EN 302 307
ISDB-S*	ARIB STD-B20

* Option

Ordering Information

Type	Description
DTA-2107-SP *	Multi-standard L-Band modulator with *StreamXpress*
DTC-305-CM	AWGN inserter option
DTC-371-IQ	IQ sample playout option
DTC-373-IS	ISDB-S modulation option

* Supports DVB-S and DVB-S2

Back to content

DTA-2111

Multi-Standard VHF/UHF Modulator

All-digital multi-standard modulator
Fully agile from 36 to 1002MHz
Upgradable to support new standards

Features

- Multi-standard modulator for PCI Express with support for most QAM-, OFDM- and VSB-based modulation standards
- Digital upconversion for excellent signal quality without need for calibration
- Supports all constellations and modulation modes for each supported standard
- All-channel upconverter 36 .. 1002MHz fully agile over VHF and UHF band
- Digital channel simulator option
- RF output for direct connection to the antenna input of a digital receiver
- Free Windows and Linux SDK (DTAPI) is fully compatible with other DekTec digital-video output adapters
- PCI Express x1

Applications

- General purpose test modulator
- SMATV, hotel server, shows and exhibitions
- OEM applications

Key Attributes

Parameter		Value
RF connector		50-Ω BNC
Frequency range		36 .. 1002MHz ±3ppm
Bandwidth (max)		16MHz
I/Q sample rate		4.7 .. 9.375MHz
Level	Range	-32 .. -9dBm (QAM) -35 .. -12dBm (OFDM)
	Step size	0.1dB
	Accuracy	±2dB
MER		>40dB
Adjacent channel		-54dB (QAM) -52dB (OFDM)
Phase noise		<-95dBc @ 100kHz
Spectral purity		>50dB @ -9dBm
Wideband noise		35dBµV (B=1MHz)
PCI Express		v1.1; PCIe 1x
OS		XP/2k3/Vista/2k8/7, Linux 2.6

Modulation Standards

Modulation	Standard
ATSC VSB	ATSC A/53E
CMMB*	GY/T 220.1/2-2006
DTMB*	GB 20600-2006
DVB-C	EN 300 429
DVB-C2*	EN 302 769
DVB-T / DVB-H	EN 300 744
DVB-T2*	EN 302 755
I/Q*	Arbitrary I/Q samples
ISDB-T*	ARIB STD-B31
QAM	J.83 Annex A/B/C

* Option

Ordering Information

Type	Description
DTA-2111-SP	VHF/UHF modulator for PCI Express with *StreamXpress*
DTA-2111-GOLD	DTA-2111 with all options

Back to content

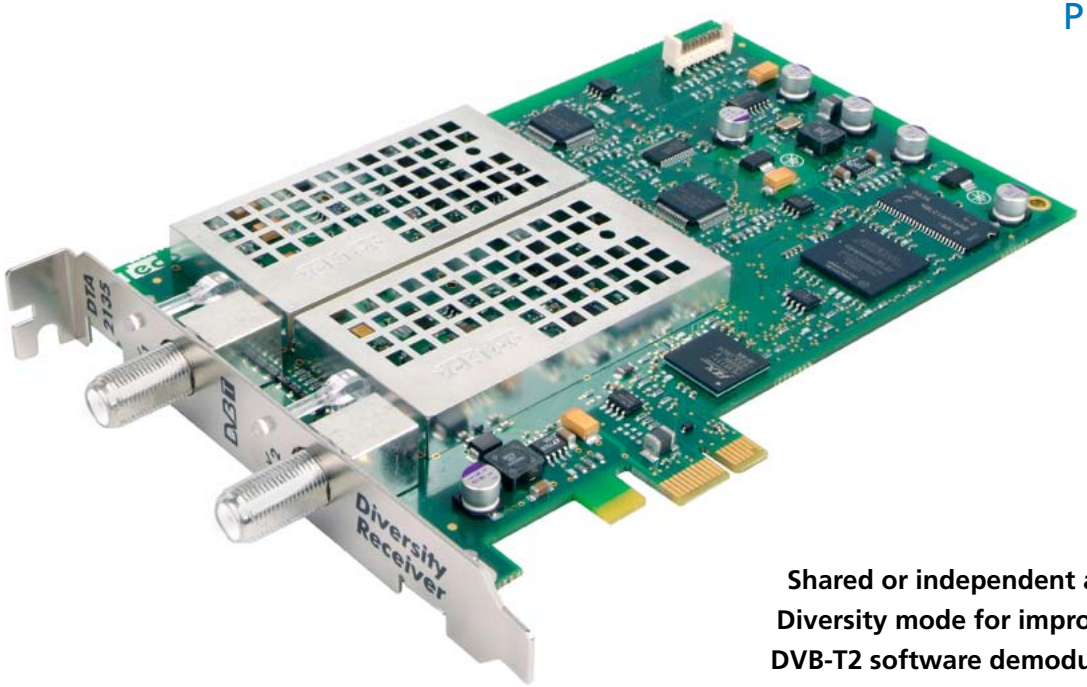
DTA-2135

Dual/Diversity DVB-T Receiver

PCI Express

Features

- Dual-channel DVB-T receiver card compliant with ETSI specification EN 300 744
- Provides two fully independent channels or one channel operating in diversity mode
- Allows connection of one antenna to each channel or the two channels can be configured to share a single antenna
- LED indicators show reception status
- Channel 1 provides ADC to get access to raw IF samples
- Each channel provides indications of reception status, RF level, demodulation status, detected constellation, code rate, constellation points, SNR and error counts
- Programming interface (DTAPI) is fully compatible with other DekTec input adapters
- PCI Express x1



Shared or independent antenna inputs
Diversity mode for improved sensitivity
DVB-T2 software demodulator available

Applications

- RF- and transport-stream level monitoring of terrestrial transmission channels
- With *T2Xpert*: DVB-T2 demodulator for field trials or monitoring
- With *C2Xpert*: DVB-C2 demodulator for field trials or monitoring

Key Attributes

Parameter		Value
Antenna inputs		2x 75-Ω "F" female
Antenna power		2x 5V @ 30mA
Tuning range		50 .. 860MHz
Bandwidth		6/7/8Mhz
Input sensitivity		-78* .. -20dBm
Metrology	RF level	-80 .. -20dBm ±3dB
	MER / SNR	10 .. 32dB ±2dB
	BER	Pre- and Post-Viterbi
	Constellation	1023 x 1023
ADC	Resolution	10bit
	Sample rate	20.647Mhz
	Buffer size	16MByte
Receive-buffer size		2x 8MByte
DVB ID		5505
PCI-Express label		PCIe x1

* Maximum sensitivity depends on number of QAM constellation points: -78dBm@64QAM; -82dBm@16QAM; -90dBm@QPSK

Related Products

Type	Description
DTA-115	Multi-standard VHF/UHF modulator
MuxXpert	Real-time MPEG-2 multiplexer
C2Xpert	DVB-C2 demodulator software
T2Xpert	DVB-T2 demodulator software

Ordering Information

Type	Description
DTA-2135-DP	Dual/diversity DVB-T receiver with *DtTV* and *DtGrabber+*
DTA-2135-SX	DTA-2135-DP bundled with *StreamXpert* transport-stream analyser
DTA-2135-C2	DTA-2135-DP bundled with *C2Xpert*
DTA-2135-T2	DTA-2135-DP bundled with *T2Xpert*

Back to content

DTA-2136

Dual QAM-A/B/C Receiver with ASI Monitoring Ports

PCI Express

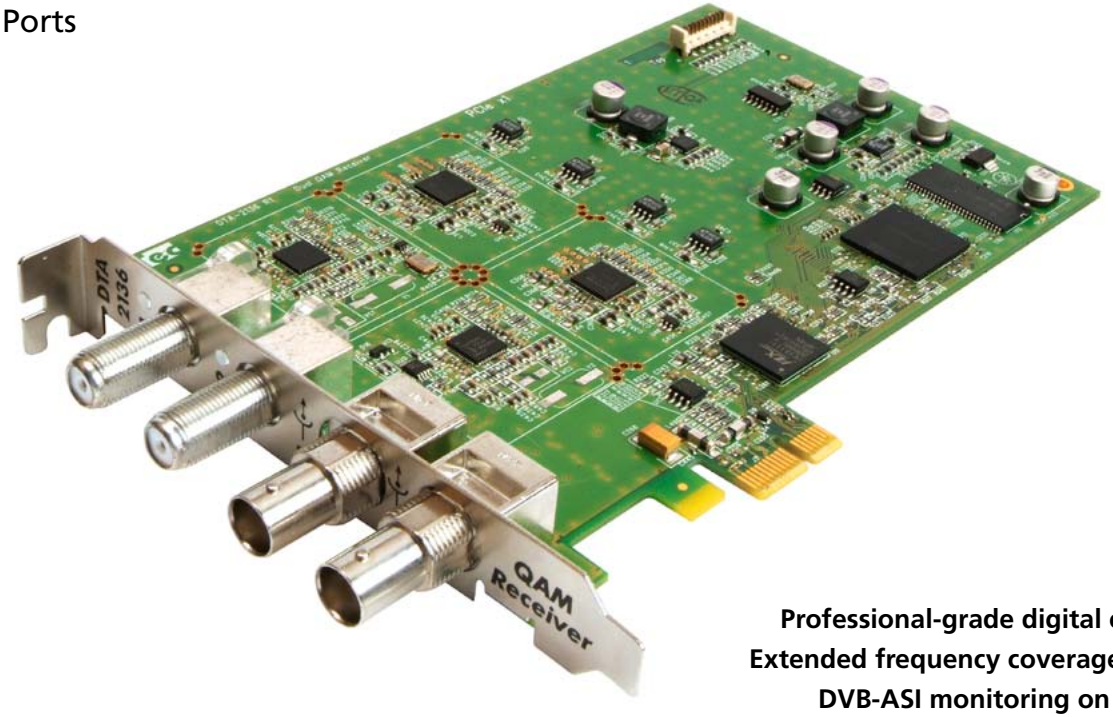
Features

- Dual-channel QAM receiver, compliant with J.83 Annex A (DVB-C), B and C
- Applications have access to the complete Transport Stream
- Two DVB-ASI output ports for monitoring the receiver output
- ASI ports can also be used as independent general-purpose ASI outputs
- Each channel provides reception status, RF level, demodulation status, constellation, SNR, MER, pre- and post-FEC BER
- Free Windows and Linux SDK (DTAPI) is fully compatible with other DekTec digital-television adapters
- PCI Express x1

Applications

- Monitoring of cable networks (with *Xpect*)

* Professional cable receiver



Professional-grade digital cable receiver
Extended frequency coverage to 1002MHz
DVB-ASI monitoring on each channel

Key Attributes

Parameter		Value
RF inputs		2x 75-Ω "F" Female
QAM standard		J.83 Annex A/B/C
Input return loss		>10dB
Tuning range		47 .. 862MHz
Input sensitivity		-60 .. -30dBm
Symbol rate		5.0 .. 7.1MBd
Metrology	RF Level	-60 .. -30dBm
	SNR	10 .. 30dB
	MER	10 .. 30dB
	BER	Pre/Post
	Constellation	2D
Receive-buffer size		2x 8MByte
PCI-Express label		PCIe x1

Related Products

Type	Description
DTA-115-SP	Multi-standard VHF/UHF modulator supporting QAM-A/B/C
DTE-3114	Standalone quad QAM modulator with TS-over-IP input
Xpect	24/7 TS monitoring software

Ordering Information

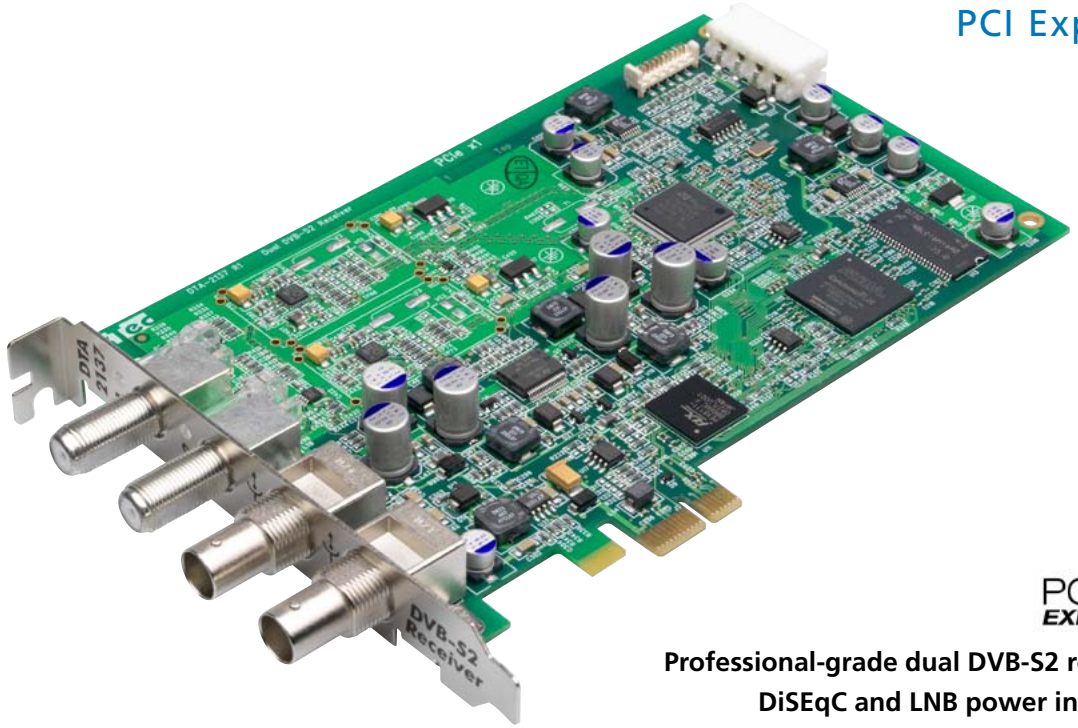
Type	Description
DTA-2136-SDP	Dual QAM Receiver with *DtTV, StreamXpress* and *DtGrabber+*
DTA-2136-SXP	DTA-2136-DP bundled with *StreamXpert* TS analyser

Back to content

DTA-2137

Dual DVB-S2 Receiver with ASI Monitoring Ports

PCI Express



Professional-grade dual DVB-S2 receiver
DiSEqC and LNB power insertion
DVB-ASI monitoring on each channel

Features

- Two independent DVB-S2 receivers with LED indicator
- Dual ASI outputs that can be used as monitoring outputs or as independent ASI output ports
- Dual LNB inputs or shared feed
- DVB-S2 demodulation compliant to EN302 307 and EN301 210, as well as legacy DVB-S support
- Implements all DVB-S2 modulation types including 16APSK and 32APSK
- Full LNB support with DiSEqC interface and 13V/18V 200mA supply (PCIe power) or 400mA with external power
- Each channel provides reception status, RF level, demodulation status, modulation type, code rate, SNR, MER and error counts
- Programming interface (DTAPI) is fully compatible with other DekTec Digital-Video input adapters
- PCI Express x1

Applications

- Multipurpose DVB-S2 receiver
- Satellite data distribution

Key Attributes

Parameter		Value
Antenna inputs		2x 75-Ω "F" Female
Imput return loss		>10dB
Tuning range		950 .. 2150MHz
Input sensitivity		-60 .. -30dBm
Baud rate		2 .. 40MBd
Metrology	RF level	-60 .. -30dBm
	SNR	5 .. 35dB
	MER	10 .. 26dB
	BER (DVB-S2)	Pre LDPC
	Constellation	256 x 256
LNB supply (per channel)		13V/18V 400mA*
Receive-buffer size		2x 8MBytes
DVB ID		5886
PCI-Express label		PCIe x1

* 200mA without 12V connected on HDD power connector

Related Products

Type	Description
DTA-107S2	DVB-S2 modulator with L-band upconverter for PCI bus
DTA-2107	Multi-standard L-band modulator for PCIe
MuxXpert	Real-time MPEG-2 multiplexer: Use DTA-2137 to remultiplex DVB-S2 channels

Ordering Information

Type	Description
DTA-2137-DP	Dual DVB-S/DVB-S2 receiver with *DtTV* and *DtGrabber+*
DTA-2137-SX	DTA-2137-DP bundled with *StreamXpert* TS analyser

Back to content

DTA-2139

Twelve-channel QAM-A/B/C receiver

PCI Express

Features

- High-density QAM-A/B/C receiver card with twelve independent receivers
- Applications have access to the complete Transport Stream for each channel
- RF signal is available on a loop-through output that can be connected to another DTA-2139. By cascading multiple DTA-2139s, a complete QAM network can be monitored
- Each channel provides reception status, RF level, demodulation status, constellation, SNR and post-FEC BER
- PCI Express x1
- Free Windows and Linux SDK (DTAPI) is fully compatible with other DekTec digital-video output adapters

Applications

- Monitoring of cable networks with Xpect
- Testing and validation of edge-QAM systems

Note

This card can output the full Transport Stream but it cannot descramble services

Twelve independent QAM receivers
Full TS available from each receiver
Loop-through RF port for easy cascading

Key Attributes

Parameter		Value
Input connector		75-Ω F female
Return loss		>10dB
Loop-through connector		75-Ω F female
Loop-through attenuation		1.5dB typ.
Tuning range		50 .. 1002MHz
Input sensitivity		-55 .. -30dBm/channel
Symbol rate		5.0 .. 7.1MBd
Metrology	RF level	-50 .. -30dBm
	SNR	10 .. 30dB
	BER	Post
	Constellation	2D
Receive-buffer size		12x 8MByte

Modulation Standards

Modulation	Standard
QAM-A (DVB-C)	EN 300 429
QAM-B	ITU J.83 Annex B
QAM-C	ITU J.83 Annex C

Related Products

Type	Description
DTA-2136	Dual QAM-A/B/C receiver with ASI monitoring outputs

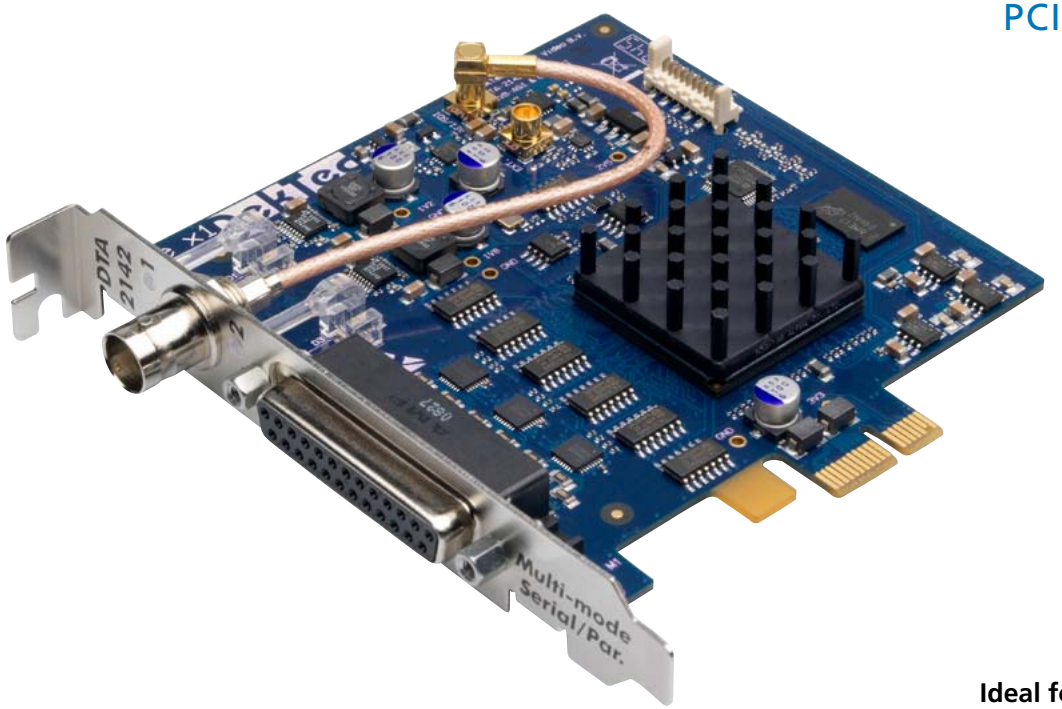
Ordering Information

Type	Description
DTA-2139-DP	Twelve-channel QAM receiver with *DtTV* and *DtGrabber+*
DTA-2139-SX	DTA-2139-DP with *StreamXpert*

Back to content

DTA-2142

Multi-Mode Serial and Parallel Port



Ideal for lab usage

Parallel-port clock up to 108MHz

Serial port: ASI or SDI, input or output

Features

- Universal parallel port for receiving or transmitting 8-bit data with valid and sync at clock rates up to 108MHz
- Software-selectable M-LVDS or LVTTL I/O standard
- Parallel port supports several modes, including DVB-SPI with boosted clock range, fixed-clock transport-stream mode, serial with explicit clock and BT-656 for uncompressed SD video
- Serial port is software-selectable input or output, DVB-ASI or SDI
- External clock input that can be used as master clock for serial and/or parallel port
- BNC connector on PCI bracket can be used as serial port (default) or as external clock input by reconnecting coax cable to the external clock input MCX connector
- Short-circuit detection on parallel port
- Each port has on-board 32-Mbytes buffer
- PCI Express x1

Applications

- General purpose lab card for generating and capturing of (un)compressed digital video and other 8-bit or 10-bit signals
- Universal stream station

Serial port

Parameter	Value
ASI/SDI connector	75-Ω BNC
DVB-ASI	EN50083-9
SD-SDI	SMPTE 259M/C
Input return loss	>15dB

Parallel port

Parameter	Value
Connector	25-pin sub-D
I/O standard	M-LVDS @ 108MHz LVTTL @ 27MHz
Clock rate	0 .. 108MHz
Modes	DVB-SPI, serial, fixed-clock TS, BT.656

Related Products

Type	Description
DTA-102	DVB-SPI output adapter for PCI bus
DTA-122	DVB-SPI input adapter for PCI bus
DTE-CA25	1.5m or 2.5m DVB-SPI cable

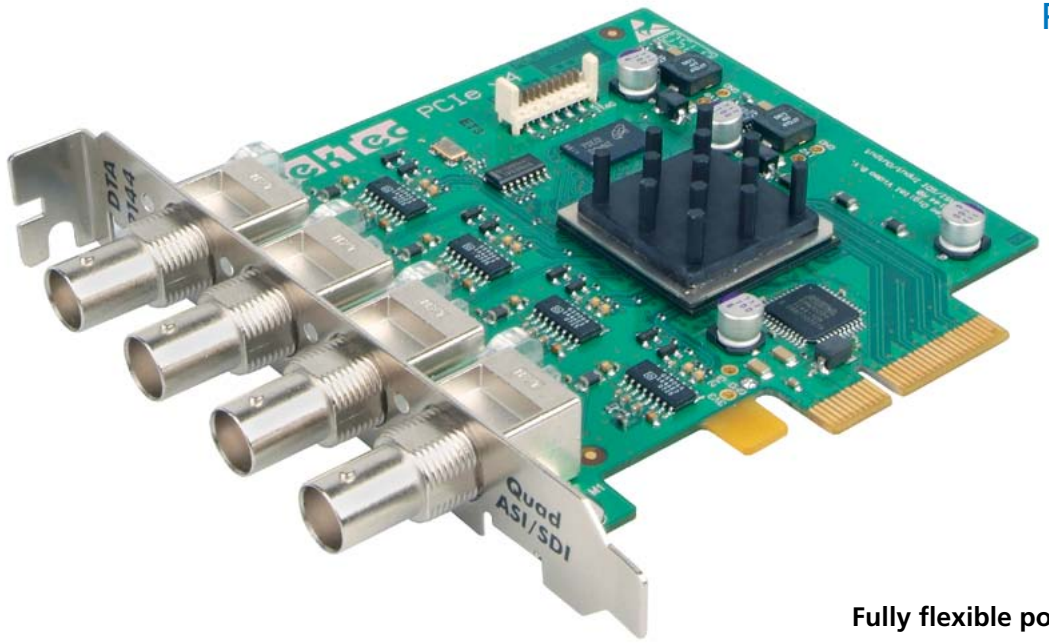
Ordering Information

Type	Description
DTA-2142-SDP	Serial and parallel port for PCIe with *DtGrabber+*, *DtTV* and *StreamXpress*
DTA-2142-SXP	DTA-2142-SDP with *StreamXpert*
DTA-2142-SY-SX	DTA-2142-SDP with *SdEye* and *StreamXpert*

Back to content

DTA-2144

Quad ASI/SDI Adapter



Fully flexible port configuration
PCI Express x4 for ample bandwidth
Supports DVB-ASI and full-frame SDI

Features

- Four ASI/SDI ports with individual status LEDs
- Each port can be independently configured as input, output or copy of another channel
- Cable equalisation and inverted ASI
- Support for genlock
- Hardware counters for bitrate measurement and statistics
- Flexible receive modes with time-stamping, packet sequence counting and false-sync pass through for full TR 101 290 support
- 10-bit SDI, full stream @ 270Mbit/s
- Lossless SDI Huffman encoding / decoding for reduction of bus bandwidth
- PCI Express x4 (Rev 1.1)
- Free drivers and SDK (DTAPI) for Linux, Windows XP/2k3/Vista/2k8/7 and .NET
- Example source code for stream player and stream recorder

Applications

- Transport-stream multiplexing
- Monitoring of multiple MPEG-2 transport streams and/or SDI serial digital video streams
- Universal ASI/SDI input/output adapter for PC-based applications that record, play and/or process ASI or SDI

Key Attributes

Parameter		Value
ASI/SDI connector		75-Ω BNC (4x)
Input return loss		>15dB
Hardware buffering		32MB/channel
ASI	Physical layer	DVB-ASI (coax) EN50083-9
	Rx or Tx bitrate	0 .. 214Mbit/s
	Resolution	<1bit/s
SDI	Physical layer	SMPTE 259M/C
	Bitrate	270Mbit/s
	#Bits	8 or 10bit
DVB ID		5551

Related Products

Type	Description
DTA-124	Quad ASI/SDI inputs for PCI
DTA-2145	Dual ASI/SDI ports for PCI Express

Ordering Information

Type	Description
DTA-2144-SDP	Quad ASI/SDI I/O adapter for PCI Express with *DtGrabber+*, *DtTV* and *StreamXpress*
DTA-2144-SXP	DTA-2144-SDP with *StreamXpert*
DTA-2144-SY-SDP	DTA-2144-SDP with *SdEye*
DTA-2144-SY-SXP	DTA-2144-SDP with *SdEye* and *StreamXpert*

Back to content

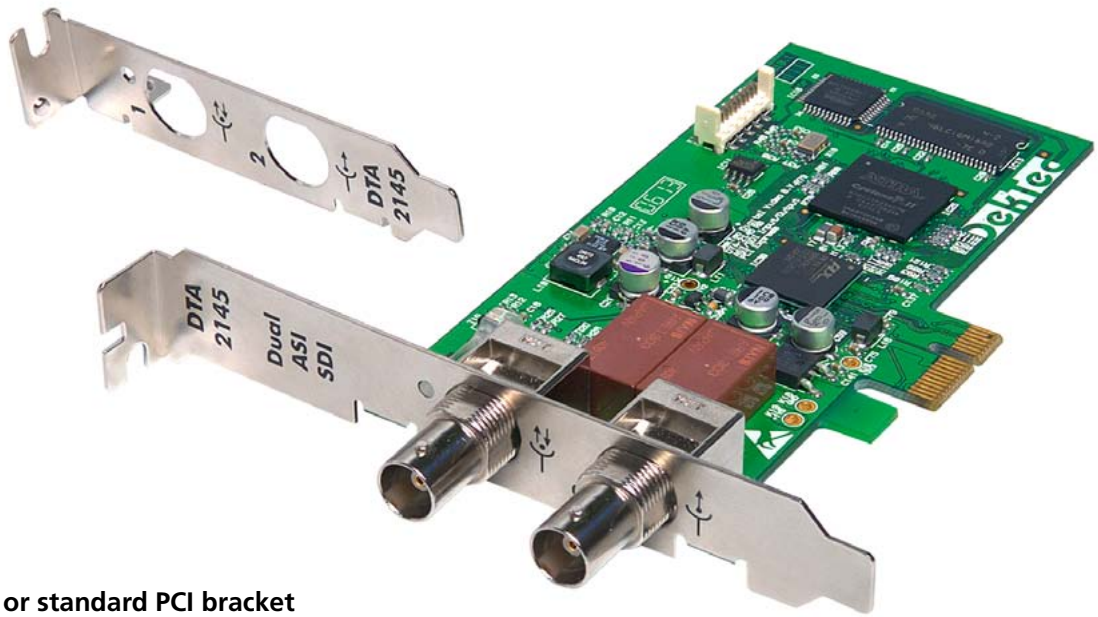
DTA-2145
Dual ASI/SDI Adapter

Features

- Two BNC ports: one dedicated ASI/SDI output port and one software-selectable ASI/SDI input- or second independent output port, with status LED
- All hardware and software features found in the market place, plus more
- Watchdog-controlled input-to-output relais for redundant configurations
- Support for genlock
- Cable equalisation and inverted ASI
- Bitrate measurement and statistics
- Flexible receive modes with time-stamping, packet-sequence counting and false-sync pass through for full TR 101 290 support
- Lossless SDI Huffman encoding / decoding
- Low profile or standard PCI bracket
- Free drivers and SDK (DTAPI) for Linux, Windows XP/2k3/Vista/2k8/7 and .NET
- PCI Express x1

Applications

- ASI/SDI stream station
- High-availability ASI/SDI generation
- ASI/SDI analysis or monitoring
- Universal ASI/SDI input/output adapter for PC-based applications that record, play and/or process MPEG-2 transport streams and/or SDI digital video



Low profile or standard PCI bracket
ASI/SDI input+output or dual output
Most complete feature set in the market

Key Attributes

Parameter		Value
Connector		75-Ω BNC (2x*)
Return loss		> 15dB
Hardware buffering		16MB/channel
ASI	Physical layer	DVB-ASI (coax) EN50083-9
	Bitrate range	0 .. 214Mbit/s
	Packet size	188 or 204**
SDI	Physical layer	SMPTE 259M/C
	Bitrate	270Mbit/s
	#Bits	8 or 10bit
PCI-Express label		PCIe x1

* 1xOutput port and 1xsoftware-selectable input or output port
** Arbitrary packet size in raw mode

Related Products

Type	Description
DTA-145	Dual ASI/SDI adapter for PCI

Ordering Information

Type	Description
DTA-2145-SDP	Dual ASI/SDI I/O adapter for PCI Express with *DtGrabber+*, *DtTV* and *StreamXpress*
DTA-2145-SXP	DTA-2145-SDP with *StreamXpert*
DTA-2145-SY-SDP	DTA-2145-SDP with *SdEye*
DTA-2145-SY-SXP	DTA-2145-SDP with *SdEye* and *StreamXpert*

Back to content

DTA-2148

Quad-Port HD-SDI Adapter with Genlock

Features

- Four bi-directional ports configurable for receiving or transmitting ASI or SD/HD-SDI
- One dedicated input port that can be used to connect an SD or HD bi-level or tri-level analog sync
- SDI output ports can be genlocked to an SDI Input port or to the analog genlock
- 10-bit SD SDI, full stream @ 270 Mbit/s
- 10-bit HD SDI, full stream @1485 Mbit/s
- Complete random access to hardware buffer. Buffer size up to 20 frames in HD-SDI or 100 frames in SD-SDI mode
- SDI video data can be read or written in 10-bit (streaming/ recording applications) or 16-bit format (for direct rendering)
- The HD-SDI input-to-output delay is configurable from 2 to 20 frames. The SD-SDI input-to-output delay is configurable from 2 to 100 frames
- Support SDI matrix mode for HD logo generation/keying applications
- SDI input and output ports can be synchronised to each other for applications requiring keys and fills
- PCI Express x4

Applications

- SD/HD-SDI recording
- SD/HD-SDI generation
- SD/HD-SDI monitoring / analysing
- SD/HD-SDI switching / mixing
- SD/HD-SDI logo generator/keyer
- SD/HD-SDI mosaic generation

Supports DVB-ASI and SD/HD SDI
Random access to hardware buffer
Dedicated genlock input port

Key Attributes

Parameter		Value
ASI/SDI connector		75-Ω BNC (4x)
Input return loss		15dB (SD/HD)
Hardware buffering		128MB/channel
ASI	Physical layer	DVB-ASI (coax) EN50083-9
	Rx or Tx bitrate	0 .. 214Mbit/s
	Resolution	<1bit/s
SDI	Physical layer	SMPTE 259M (SD) / SMPTE 292M (HD)
	Bitrate	270Mbit/s (SD) 1.485Gbit/s (HD)
	#Bits	8 or 10bit

Related Products

Type	Description
DTA-124	Quad ASI/SDI inputs for PCI
DTA-2144	Quad ASI/SDI ports for PCI Express
DTA-2152	Dual-port HD-SDI with genlock for PCI Express
DTC-335	SdEye real-time SDI waveform monitor

Ordering Information

Type	Description
DTA-2148-SDP	Quad-port HD-SDI adapter for PCI Express with *DtGrabber+*, *DtTV* and *StreamXpress*
DTA-2148-SXP	DTA-2148-SDP with *StreamXpert*

Back to content

DTA-2152

Dual-Port HD-SDI Adapter with Genlock

Supports DVB-ASI and SD/HD SDI
Low profile PCI Express x4
Dedicated genlock input port

Features

- Two bi-directional ports configurable for receiving or transmitting SD/HD SDI or DVB-ASI
- One dedicated genlock port that can be used to connect an SD or HD bi-level or tri-level analog sync
- SDI output ports can be genlocked to an SDI Input port or to the analog genlock port
- 10-bit SD SDI, full stream @ 270 Mbit/s
- 10-bit HD SDI, full stream @1485 Mbit/s
- Complete random access to hardware buffer. Buffer size up to 20 frames in HD-SDI or 100 frames in SD-SDI mode
- SDI video data can be read or written in 10-bit (streaming/ recording applications) or 16-bit format (for direct rendering)
- The HD-SDI input-to-output delay is configurable from 2 to 15 frames (up to 0.5s). The SD-SDI input-to-output delay is configurable from 2 to 90 frames (up to 3s)
- Support SDI matrix mode for HD logo generation/keying applications
- Low profile and standard PCI bracket available
- PCI Express x4

Applications

- Key and fill generators
- Genlocked processing of HD-SDI signals

Key Attributes

Parameter		Value
ASI/SDI connector		75-Ω BNC (2x)
Genlock connector		BNC
Input return loss		15dB (SD/HD)
Hardware buffering		128MB/channel
ASI	Physical layer	DVB-ASI (coax) EN50083-9
	Rx or Tx bitrate	0 .. 214Mbit/s
	Resolution	<1bit/s
SDI	Physical layer	SMPTE 259M (SD) SMPTE 292M (HD)
	Bitrate	270 Mbit/s (SD) 1.485 Gbit/s (HD)
	#Bits	8 or 10bit

* Limited only by cumulative TS rate and PC resources

Related Products

Type	Description
DTA-2144	Quad-port ASI/SD-SDI adapter for PCIe
DTA-2145	Dual-port ASI/SD-SDI adapter for PCIe with fail-over relais
DTA-2148	Quad-port HD-SDI with genlock for PCI Express
DTC-335	SdEye real-time SDI waveform monitor

Ordering Information

Type	Description
DTA-2152-SDP	Dual-port HD-SDI adapter with *DtGrabber+*, *DtTV* and *StreamXpress*
DTA-2152-SXP	DTA-2152-SDP with *StreamXpert*

Back to content

DTA-2160

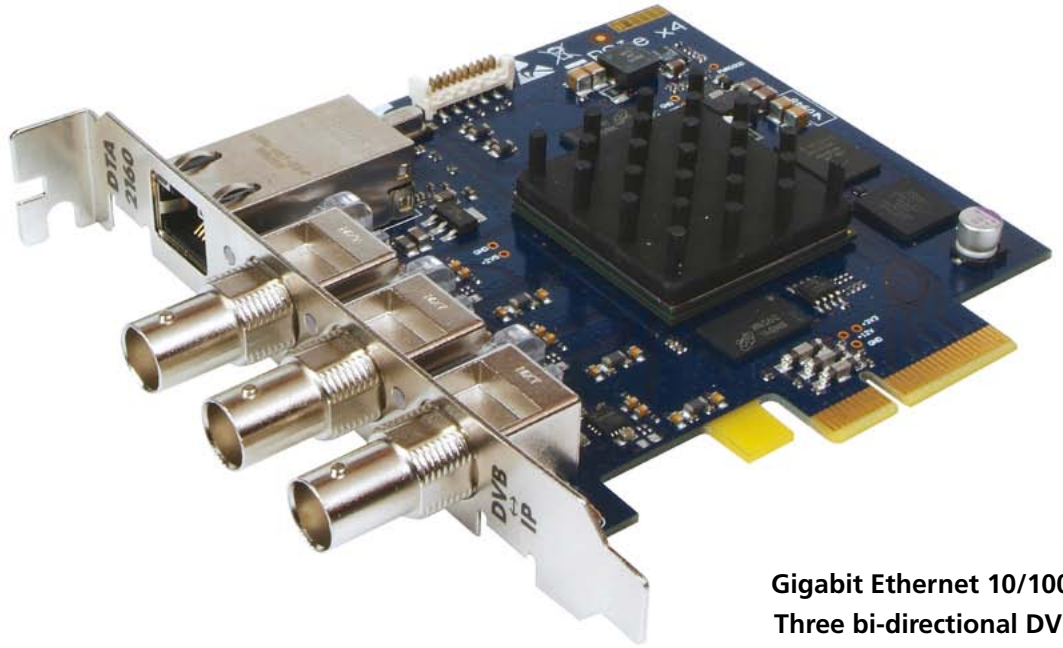
GigE + 3x ASI ports

Features

- Transmission and reception of Transport Streams over IP networks, with transcoding between ASI and IP ports
- IP encapsulation in accordance with SMPTE 2022-1 and 2022-2
- Zero-jitter playout of multiple TSoIP streams
- ASM and SSM multicast support
- Generation of two-dimensional FEC with programmable dimensions D and L and block-aligned FEC linearization
- Re-ordering and error correction of TSoIP streams with programmable latency
- Time stamping of incoming IP packets to enable TSoIP jitter analysis
- Uniform software access to ASI- and TSoIP ports with DTAPI
- Comes with NDIS network driver

Applications

- Contribution, primary distribution over IP
- Multipurpose ASI/TSoIP stream station
- Jitter measurements of TSoIP streams
- General-purpose ASI and TSoIP inputs and outputs for OEM applications



Gigabit Ethernet 10/100/1000 port
Three bi-directional DVB-ASI ports
Transcoding between ASI and TSoIP

Key Attributes

Parameter		Value
TSoIP	Physical layer	IEEE 802.3ab
	Data rate	10/100/1000
	Connector	RJ-45
	Maximum TS rate	600Mbit/s
	Parallel TSoIP streams	100+*
ASI	Physical layer	DVB-ASI (coax)
	Connector	75-Ω BNC (3x)
	Rx or Tx bitrate	0 .. 214Mbit/s
	Resolution	<1bit/s
Transport packets per IP		1,2,3,4,5,6 or 7
TSoIP protocol		UDP or RTP
TSoIP FEC and Encapsulation		SMPTE 2022
Transcoding rate		0 .. 200Mbit/s
PCI Express		v1.1; PCIe x4

* Limited only by cumulative TS rate and PC resources

Related Products

Type	Description
DTA-160	GigE + 3x ASI ports for PCI
DTE-3100	Networked ASI output adapter
DTE-3120	Networked ASI input adapter

PC Requirements

OS	XP/2k3/Vista/2k8/7, Linux
Platform	P4@2GHz, 1GB RAM

Ordering Information

Type	Description
DTA-2160-SDP	Gigabit TSoIP and triple ASI adapter for PCI Express bus with *DtTV*, *DtGrabber+* and *StreamXpress*
DTA-2160-SXP	DTA-2160-SDP with *StreamXpert*

Back to content

DTU-205

FantASI USB-2 ASI/SDI Output Adapter

Features

- Convenient, compact USB adapter that can be used to generate either MPEG-2 transport streams (DVB-ASI), or uncompressed serial digital video (SDI)
- Easily-installable replacement of PCI-based ASI and/or SDI output card
- USB powered – no separate power supply required
- 16-Mbytes local buffer for sustained generation of digital video streams
- Comes with free Windows/Linux drivers and associated SDK for developing custom applications
- Software-compatibility with other DekTec interface adapters on DTAPI level
- Lossless SDI Huffman decoding for reduction of bus bandwidth
- Connect multiple FantASI adapters to a single PC or Notebook, to create multiple DVB-ASI input and/or output channels

Applications

- Universal USB adapter for Notebook and PC applications that generate ASI or SDI
- Perfect for demos and experiments
- ASI or SDI test generator

No AC power adapter required
0..214Mbps ASI; 270Mbps full frame SDI
Portable generation of ASI or SDI streams

Key Attributes

Parameter		Value
Connector		75-Ω BNC (2x)
ASI	Physical layer	EN50083-9
	Bitrate range	0 .. 214Mbit/s
	Packet size	188 or 204
SDI	Physical layer	SMPTE 259M/C
	Bitrate	270Mbit/s
	#Bits	8 or 10 bit
USB port		USB-2*
Power (through USB-2)		5V, 400mA max
Dimensions in mm (LxWxH)		87 x 104 x 30

* USB-1 provides insufficient bandwidth and is not supported

Related Products

Type	Description
DTA-105	Dual ASI output for PCI
DTE-3100	Networked ASI output
DTU-225	USB-2 ASI/SDI input
DTU-245	USB-2 ASI/SDI input + output
DTC-300-SP	*StreamXpress* player software

Ordering Information

Type	Description
DTU-205-SP	FantASI USB-2 ASI/SDI output adapter with *StreamXpress*

Back to content

DTU-215

FantASI USB-2 VHF/UHF Modulator

Features

- USB-2 based multi-standard modulator with support for most QAM-, OFDM- and VSB-based modulation standards
- Powered from the USB-2 bus, so no external power adapter is required
- Supports all constellations and modulation modes for each supported standard
- Digital upconversion for excellent signal quality without need for calibration
- Playout of I/Q sample files
- Programmable attenuator
- Free Windows and Linux SDK is fully compatible with other DekTec digital-video output adapters

Applications

- Multi-standard test generator
- Demonstrations
- Research and development

No power adapter required
Fully agile from 36 to 1002MHz
Channel simulation option

Key Attributes

Parameter		Value
Parameter		Value
RF connector		75-Ω F male
Frequency range		36 .. 1002MHz ±3ppm
Bandwidth (max)		8.0MHz
I/Q sample rate		4.7 .. 9.375MHz
Level	Range	-46 .. -15dBm (QAM) -49 .. -18dBm (OFDM)
	Step size	0.5dB
	Accuracy	±2dB
MER		>40dB
Adjacent channel		-54dB (QAM) -52dB (OFDM)
Phase noise		<-95dBc @ 10kHz
Spectral purity		>50dB (47 .. 1000MHz)
USB port		USB-2
Power (through USB-2)		5V, 500mA
Dimensions (LxWxH)		123 x 62 x 22mm

Modulation Standards

Modulation	Standard
ATSC VSB	ATSC A/53E
CMMB*	GY/T 220.1/2-2006
DTMB*	GB 20600-2006
DVB-C	EN 300 429
DVB-C2*	EN 302 769
DVB-T / DVB-H	EN 300 744
DVB-T2*	EN 302 755
I/Q*	Arbitrary I/Q samples
ISDB-T*	ARIB STD-B31
QAM	J.83 Annex A/B/C

* Option

Ordering Information

Type	Description
DTU-215-SP	USB-2 VHF/UHF modulator with *StreamXpress*
DTU-215-GOLD	DTU-215 with all options

Back to content

DTU-225

FantASI USB-2 ASI/SDI Input Adapter

No AC power adapter required
ASI or SDI capturing and analysis
0 .. 214Mbps ASI; 270Mbps full frame SDI

Features

- Convenient, compact USB adapter that can be used for capturing either an MPEG-2 transport stream (DVB-ASI), or uncompressed serial digital video (SDI)
- Easily-installable replacement of PCI-based ASI and/or SDI input card
- USB powered – no separate power supply required
- 16-Mbytes local buffer for sustained real-time capturing of digital video streams
- Comes with free Windows/Linux drivers and associated SDK for developing custom applications
- Software-compatibility with other DekTec interface adapters on DTAPI level
- Lossless SDI Huffman encoding for reduction of bus bandwidth
- Connect multiple FantASI adapters to a single PC or Notebook, to create multiple DVB-ASI input and/or output channels

Applications

- Universal USB adapter for Notebook and PC applications that have to capture or process ASI or SDI
- ASI or SDI capturing to file
- ASI or SDI real-time analysis

Key Attributes

Parameter		Value
Connector		75-Ω BNC (2x*)
Input return loss		>15dB
ASI	Physical layer	EN50083-9
	Bitrate range	0 .. 214Mbit/s
	Packet size	188 or 204
SDI	Physical layer	SMPTE 259M/C
	Bitrate	270Mbit/s
	#Bits	8 or 10bit
USB port		USB-2**
Power (through USB-2)		5V, 400mA max
Dimensions in mm (LxWxH)		87 x 104 x 30

* Input and loop-through output
** USB-1 provides insufficient bandwidth and is not supported

Related Products

Type	Description
DTU-205	USB-2 ASI/SDI output
DTU-245	USB-2 ASI/SDI input+output

Ordering Information

Type	Description
DTU-225-DP	USB-2 ASI/SDI input adapter with *DtGrabber+* and *DtTV*
DTU-225-SX	DTU-225-DP with *StreamXpert*
DTU-225-SY-SX	DTU-225-DP with *SdEye* and *StreamXpert*

Back to content

DTU-245

FantASI USB-2 ASI/SDI Input+Output Adapter

No AC power adapter required
Portable streaming of DVB-ASI and SDI
Essential tool for every digital-TV engineer

Features

- Convenient, compact USB adapter that can be used to capture and generate MPEG-2 transport streams (ASI) and uncompressed serial digital video (SDI)
- USB powered - no power supply required
- Independent operation of input and output:
  - Full-duplex: maximum combined bitrate of 160 MBps
  - Half-duplex: Full DVB-ASI and SDI bitrate range
- 16-Mbytes local hardware buffer for sustained real-time streaming

Applications

- General-purpose USB adapter for capturing, generating and processing of ASI and SDI streams
- On-site recording and analysis
- Portable demo set

Bundled Software (DTU-245-SDP)

- *DtGrabber+* advanced capturing
- *DtTV* transport-stream television
- *StreamXpress* ASI / SDI player
- Windows/Linux drivers and associated SDK for developing custom applications
- (DTU-245-SXP) *StreamXpert* transport-stream analyser software
- (DTU-245-SY-SDP) *SdEye* SDI waveform monitoring software

Key Attributes

Parameter		Value
Connector		75-Ω BNC (2x)
ASI	Physical layer	EN50083-9
	Bitrate range	0 .. 160Mbit/s*
	Packet size	188 or 204
SDI	Physical layer	SMPTE 259M/C
	Bitrate (half-duplex only)	270Mbit/s
	#Bits	8 or 10 bit
USB port		USB-2**
Power (through USB-2)		5V, 400mA max
Dimensions in mm (LxWxH)		87 x 104 x 30

* Maximum total bitrate (Input+Output) in full-duplex mode. In half-duplex mode the full ASI/SDI range is supported
** USB-1 provides insufficient bandwidth and is not supported

Ordering Information

Type	Description
DTU-245-SDP	USB-2 ASI/SDI input+output adapter with *DtGrabber+*, *DtTV* and *StreamXpress*
DTU-245-SXP	DTU-245-SDP with *StreamXpert*
DTU-245-SY-SDP	DTU-245-SDP with *SdEye*
DTU-245-SY-SXP	DTU-245-SDP with *SdEye* and *StreamXpert*
DTU-245-DVB+	DTU-245-SDP with *DVBAnalyzer* advanced transport-stream analyser

Back to content

DTE-3100

Networked DVB-ASI Output Adapter

TSoIP to DVB-ASI converter
Power over Ethernet enabled
UDP, RTP, 2D FEC (SMPTE-2022)

Features

- Standalone module can either be used as compact autonomous TS-over-IP (TSoIP) to ASI gateway, or as remote I/O device for PC-based applications
- SMPTE-2022 and DTAPI mode
- Power over Ethernet (PoE) support: No separate power feed required
- External power supply available for use with non-PoE enabled switch
- Advanced time-reconstruction algorithm to overcome IP jitter, with programmable size of jitter-tolerance buffer
- Supports IP de-encapsulation and 2D FEC decoding according to SMPTE 2022-1 and SMPTE 2022-2
- LCD status display shows device identifier, bitrate, IP/MAC address and status
- Uniform software access to DekTec TSoIP-, PCI- and USB devices through DTAPI
- Install up to 12 modules in 3U 19" rack space using the DekTec rack-mountable rail
- Units can be mounted directly on a wall using a DIN rail

Applications

- Autonomous TSoIP to DVB-ASI gateway
- With DTE-3120: Tunnelling of ASI signals over LAN, WAN or the Internet
- Remote DVB-ASI output adapter for server-based data inserters, stream servers, multiplexers and similar systems

Key Attributes

Parameter		Value
GigE port	Physical layer	IEEE 802.3af
	Data rate	10/100/1000
	Connector	RJ-45
ASI port	Physical layer	DVB-ASI (coax)
	Connector	75-Ω BNC (2x)
	Tx bitrate	0 .. 214Mbit/s*
	Resolution	<1bit/s
Transport	TP per IP	1 .. 7
	Encapsulation	UDP or RTP
	FEC	SMPTE 2022
TSoIP to ASI latency		10ms
Jitter tolerance range		1 .. 120 ms
DVB ID		5824

* 209Mbit/s in SMPTE mode

Control

IP-address assignment	DHCP or static
Multicast support	IGMP v2
Device management	Browser based
Network management	SNMP v2c
Discovery	WS-Discovery

Related Products

Type	Description
DTE-3120	Networked ASI input adapter

Ordering Information

Type	Description
DTE-3100	Networked ASI output adapter
DTE-3100-SP	DTE-3100 with *StreamXpress*

Units are shipped with power supply. Add -NOPSU for ordering without power supply

Back to content

DTE-3114
Networked Quad QAM Modulator

Four QAM-A/B/C modulators
Agile over VHF/UHF up to 1GHz
RTP with FEC decoding on each channel

Features

- Standalone four-channel QAM modulator with TS-over-IP (TSoIP) inputs and directly synthesized VHF/UHF outputs
- 2D FEC decoder for error correction of incoming TSoIP streams
- Web and SNMP interface for setting parameters and observing status
- Unit can be powered via the Ethernet cable (Power over Ethernet) or through a DC power supply jack
- Advanced removal of IP jitter with programmable size of jitter-tolerance buffer
- Full support of SMPTE 2022-1/2
- LCD status display shows device identifier, QAM-mode, carrier frequencies, output level and IP/MAC address
- Install up to 12 modules in 3U 19" rack space using DekTec rack-mountable rail

Applications

- Cable-TV modulator with TSoIP input
- QAM test generator

Key Attributes

Parameter		Value
Main RF port	Connector	75-Ω F Female
	Output level (total)	-32 .. -9dBm
Monitor port	Connector	75-Ω F Female
	Output level (total)	-33±3dBm
RF	Range	36 .. 1002MHz
	Channel spacing	6 .. 8MHz
	Symbol rate	4.48 .. 7.0MBd
	MER	42dB
GigE port	Physical layer	IEEE 802.3af
	Connector	RJ-45
Transport	TP per IP	1 .. 7
	Encapsulation/FEC	SMPTE 2022
TSoIP to QAM latency		10ms (max)
Jitter tolerance range		1 .. 120 ms

Modulation

QAM-A	EN 300 429 (DVB-C)
QAM-B	J.83 Annex B with support for all interleaver modes
QAM-C	J.83 Annex C

Control

IP-address assignment	DHCP or static
Multicast support	IGMP v2
Device management	Browser based
Network management	SNMP v2c
Discovery	WS-Discovery

Ordering Information

Type	Description
DTE-3114	Networked quad QAM modulator

Units are shipped with power supply. Add -NOPSU for ordering without power supply

Back to content

DTE-3120

Networked DVB-ASI Input Adapter

DVB-ASI to TSoIP converter
Power over Ethernet enabled
UDP, RTP, 2D FEC (SMPTE-2022)

Features

- Standalone module can either be used as compact autonomous ASI to TS-over-IP (TSoIP) gateway, or as remote I/O device for PC-based applications
- SMPTE-2022 and DTAPI mode
- Time stamping for monitoring applications
- Power over Ethernet (PoE) support: No separate power feed required
- External power supply available for use with non-PoE enabled switch
- Fail-over relays for input-to-output connection in case of power failure
- Supports IP encapsulation and 2D FEC encoding according to SMPTE 2022-1 and SMPTE 2022-2
- LCD status display shows device identifier, bitrate, IP/MAC address and status
- Uniform software access to DekTec TSoIP-, PCI- and USB devices through DTAPI
- Install up to 12 modules in 3U 19" rack space using the DekTec rack-mountable rail
- Units can be mounted directly on a wall using a DIN rail

Applications

- Autonomous DVB-ASI to TSoIP gateway
- With DTE-3100: Tunnelling of ASI signals over LAN, WAN or the Internet
- Remote DVB-ASI input adapter for server-based analysers, monitoring applications (*Xpect*), multiplexers and similar systems

Key Attributes

Parameter		Value
GigE port	Physical layer	IEEE 802.3af
	Data rate	10/100/1000
	Connector	RJ-45
ASI port	Physical layer	DVB-ASI (coax)
	Connector	75-Ω BNC (2x)
	Rx bitrate	0 .. 214Mbit/s
	Return loss	17dB typ.
Transport	TP per IP	1 .. 7
	Encapsulation	UDP or RTP
	FEC	SMPTE 2022
ASI to TSoIP latency		10ms
Buffer size		32MB
DVB ID		5823

Control

IP-address assignment	DHCP or static
Multicast support	IGMP v2
Device management	Browser based
Network management	SNMP v2c
Discovery	WS-Discovery

Related Products

Type	Description
DTE-3100	Networked ASI output adapter

Ordering Information

Type	Description
DTE-3120	Networked ASI input adapter
DTE-3120-DP	DTE-3120 with *DtTV*, *DtGrabber+*
DTE-3120-SX	DTE-3120-DP with *StreamXpert*

Units are shipped with power supply. Add -NOPSU for ordering without power supply

Back to content

DTE-3137

Networked DVB-S(2) Satellite Receiver

Compact professional satellite receiver
Full TS output on IP and DVB-ASI
LNB power insertion

Features

- Standalone DVB-S2 receiver supporting QPSK, 8-PSK, 16-APSK and 32-APSK
- DVB-S2 demodulation compliant to EN302-307 and EN301-210, as well as legacy DVB-S support
- Web and SNMP interface for setting parameters and observing status
- Unit can be powered via the Ethernet cable (Power over Ethernet) or through a DC power supply jack
- LNB power insertion
- Full support of SMPTE 2022-1/2, with 2D FEC encoder for robust transport over IP
- LCD status display shows device identifier, mode, carrier frequency, level, SNR, BER and IP/MAC address
- Install up to 12 modules in 3U 19" rack space using DekTec rack-mountable rail

Applications

- SMATV: Redistribution of satellite TV
- General-purpose receiver for obtaining the full Transport Stream from a DVB-S2 signal

Key Attributes

Parameter		Value
RF input	Connector	75-Ω F Female
	Return loss	>10dB
	Tuning range	950 .. 2150MHz
	Sensitivity	-30 .. -60dBm
	Baud rate	2 .. 40MBd
LNB	Supply	13V/18V 400mA
	22kHz tone	On/Off
TS output ASI port	Connector	75-Ω BNC
	DVB-ASI	EN50083-9
GigE port	Connector	RJ-45
	Physical layer	IEEE 802.3at
Transport	TP per IP	1 .. 7; UDP/RTP
	FEC	SMPTE 2022-1
Device power	Connector	2.1 mm DC plug
	24V Supply	22 .. 30V; 17W

Standards

Standard	Mode
EN 301 210	DVB-S
EN 302 307	DVB-S2: QPSK, 8-/16-/32-APSK CCM only

Control

IP-address assignment	DHCP or static
Multicast support	IGMP v2
Device management	Browser based
Network management	SNMP v2c
Discovery	WS-Discovery

Ordering Information

Type	Description
DTE-3137	Networked DVB-S(2) receiver

Back to content

DTE-RCK1
19” Mountable Rack for DTE-31XX

- Mount up to 12 DTE-31XX units in a 19” rack
- Mount another 12 units at the back side

DTE-STAND
Table Stand for DTE-31XX

- For non-wall mount applications

Back to content

DTM-3200

OEM Module TS-over-IP Converter

Converts ASI to IP or IP to ASI
Serial and parallel TS port
UDP, RTP, 2D FEC (SMPTE-2022)

Features

- Compact OEM module for interfacing a Transport Stream to a network. The DTM-3200 converts from IP to ASI, or from ASI to IP
- Additional 8-bit parallel Transport Stream I/O port on a 26-way boxed header
- Advanced time-reconstruction algorithm to overcome IP jitter, with programmable size of jitter-tolerance buffer
- Full supports of IP encapsulation and 2D FEC encoding/decoding as described in SMPTE 2022-1/2
- Unicast and multicast IP addressing
- Various serial interfaces available for controlling the OEM module
- Persistent storage of configuration parameters

Applications

- Easy way to add a TS-over-IP input or output to your TS-processing product
- Tunnelling of ASI signals over LAN, WAN or the Internet

Development Kit

- DTM-3200 module
- Power supply with cable
- USB to serial converter

Key Attributes

Parameter		Value
GigE port	Physical layer	IEEE 802.3a
	Data rate	100/1000
	Connector	RJ-45 with LEDs
DVB-ASI port	Physical layer	EN50083-9
	Connector	1x 75-Ω MCX
	Tx bitrate	0.01 .. 214Mbit/s
Parallel port	Physical layer	M-LVDS
	Signals	Clock, sync, valid, 8-bit data
	Connector	26-way header
Transport	TP per IP	1 .. 7
	Encapsulation	UDP or RTP
	FEC	SMPTE 2022
TSoIP to ASI latency*		1ms
Jitter tolerance range		1 .. 500ms
Dimensions WxHxD		80x55x14mm

* Excluding FEC reconstruction and jitter tolerance delay.

Protocol Support

Ethernet encapsulation	IEEE 802.2 SNAP, Eth. II
IP support	IPv4
IP-address assignment	DHCP, link local or static
Multicast support	IGMP v2
Device management	Out of band: RS-232, RS-422, RS-485, I2C
Network management	Not supported

Related Products

Type	Description
DTE-3100	Networked ASI output (DIN-rail mount)
DTE-3120	Networked ASI input (DIN-rail mount)

Ordering Information

Type	Description
DTM-3200	OEM TS-over-IP converter
DTM-3200-DEVKIT	Development kit for DTM-3200

Back to content

DTC-300 StreamXpress

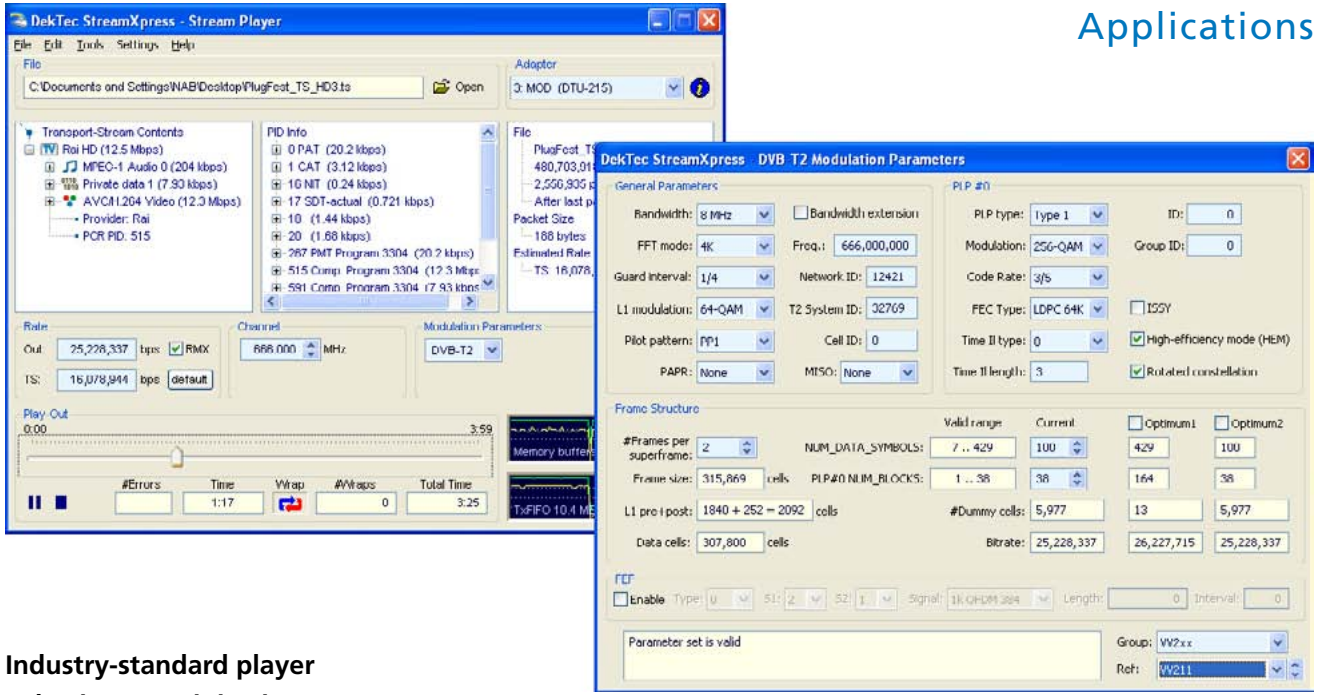
Transport-Stream/SDI Playout Software

Features

- Integrate yourself a low-cost, high-performance stream player using a standard- or industrial PC, a DekTec output adapter and the StreamXpress playout software
- Integrated (P)SI viewer
- Control of modulation parameters
- Optional channel modeling of RF output signal
- Integrated ISDB-T hierarchical multiplexer
- Supports DTA-Plus RF attenuator
- Play-out at a higher rate by null-packet stuffing with PCR correction
- Endless play with optional automatic correction of continuity-counter and PCR/PTS/DTS fields
- Automatic computation of transport rate
- Reproducible injection of errors in the transport stream with adjustable error rate
- SOAP-based remote control option

Applications

- Universal MPEG-2 stream generator for feeding set-top boxes, digital-video processing equipment, etc.
- Demoing your MPEG-2 equipment
- Laboratory MPEG-2 test-signal generator



Industry-standard player
Selective error injection
Integrated (P)SI viewer, looping

Supported Output Adapters

Signal Type	Supported Adapters
DVB-ASI	DTA-105, DTA-160, DTE-3100
DVB-SPI	DTA-2142
ASI/SDI	DTA-145, DTA-2142, DTA-2144, DTA-2145, DTA-2160, DTU-205, DTU-245
Modulators	DTA-107S2, DTA-110T, DTA-112, DTA-115, DTA-116, DTA-117, DTA-2107, DTA-2111, DTU-215
TSoIP	DTA-160, DTA-2160

PC Requirements

Platform	Windows XP/2k3/Vista/2k8/7, 512MB
Processor*	PIII (ASI) .. Core 2/Core i7 (DVB-T2)

* Or equivalent AMD processor

Related Products

Type	Description
DTA-Plus	VHF/UHF attenuator; Can be controlled from *StreamXpress*
DTC-320-SX	*StreamXpert* TS analyser software
DTC-335-SY	*SdEye* SDI analysis software

Ordering Information

Type	Description
DTC-300-SP	*StreamXpress* playout software
DTC-302-RC	Remote control option
DTC-305-CM	*XpressSim* channel-modelling option for modulators

Back to content

DTC-305 XpressSim

Multipath RF Channel Simulator

Features

- Software option to add real-time channel impairments to the output of a DekTec modulator card
- Simulates reflections from buildings and mountains (echo paths), reception with a moving receiver (Doppler effect) and uncorrelated noise
- Up to 32 echo paths with programmable delay and attenuation. The number of paths that can be simulated depends on CPU and modulation type
- Four echo path types:
  - Constant phase
  - Constant Doppler
  - Rayleigh fading with Gaussian spectrum
  - Rayleigh fading with Jakes spectrum
- Addition of Gaussian-distributed noise with adjustable SNR
- Ricean channel can be simulated by using multiple Doppler paths

Applications

- Evaluating the performance of receivers and receiver ICs
- Development of channel-estimation algorithms
- Demonstration of the capabilities of receiver chips
- Settop-box repair

Key Attributes

Parameter	Value
Number of echo paths	0 .. 32*
Echo delay range	0 .. 896µs
Modulation standards	ATSC, CMMB, DTMB, DVB-C(2), DVB-T(2), I/Q, ISDB-T, QAM-A/B/C
	DVB-S, DVB-S2 (AWGN only)

* Maximum number of echo paths depends on CPU speed

PC Requirements

Platform	Windows XP/2k3/Vista/2k8/7
Processor*	Core 2, Core i7

* Or equivalent AMD processor

Supported Adapters

Type	Description
DTA-107	DVB-S2 modulator (AWGN only)
DTA-115	Multi-standard VHF/UHF modulator
DTA-116, DTA-117	Multi-standard 36/44MHz IF modulator
DTU-215	Multi-standard VHF/UHF modulator for USB

Ordering Information

Type	Description
DTC-305-CM	*XpressSim* real-time RF channel simulator

Back to content

DTC-315 DtEncode

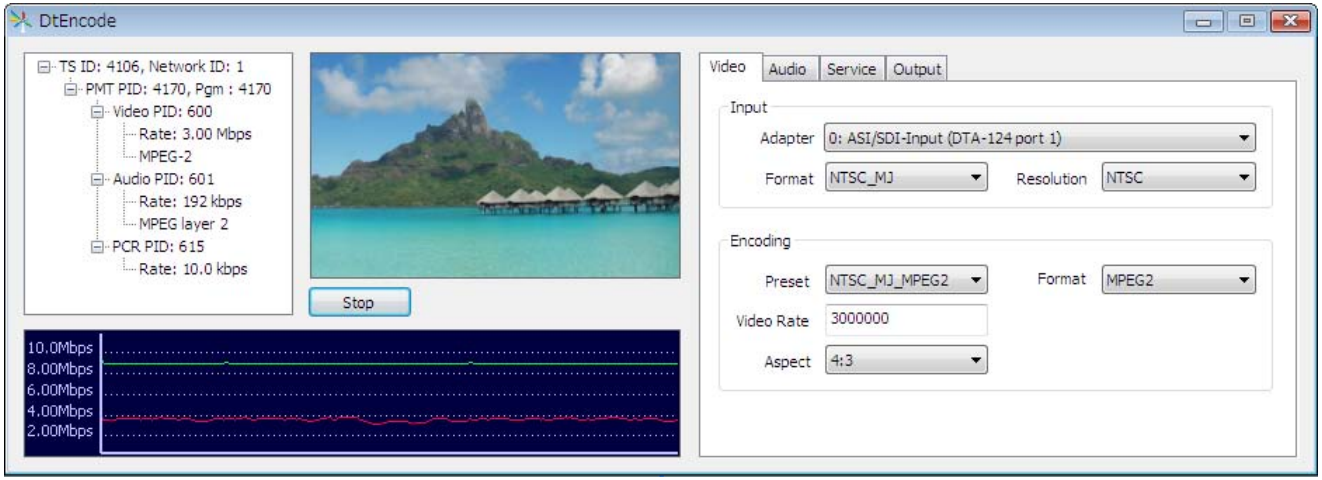
Real-Time Video and Audio Encoder Software

Features

- Software option for real-time encoding of uncompressed video and audio into a Single-Program Transport Stream (SPTS) with real-time output to any DekTec adapter
- MPEG-2 and H.264 video encoding
- MPEG-2 layer 2 and AAC audio encoding
- Simple configuration of Transport-Stream parameters: PIDs, program number, TS ID, Network ID
- Configuration management and automatic application start from XML files
- Presets available for common networks and regions
- Multiple encoding options available: Standard Definition (SD), High Definition (HD) and encoding for mobile TV for ISDBT 1seg, iPhone, iPad
- Dummy SI insertion for direct RF output from DekTec modulator cards.
- Convenient visual monitoring in GUI of input video, rate and TS structure
- PC screen can be used as input
- Remote control through SNMP and SOAP

Applications

- Local broadcasting
- Test-stream generation
- Transmitting PC screen contents as an MPEG-2 Transport Stream



Versatile program encoder
SD, HD and mobile encoding
Generates basic PSI/SI Information

Supported I/O Devices

Signal Type	Supported Adapters
Input CVBS	Osprey 240e, 440, 450e
Input SD-SDI	DTA-124, DTA-145, DTA-160 DTA-545, DTA-2144, DTA-2145 DTU-225, DTU-245
Output TS	DTA-102, DTA-105, DTA-107(S2), DTA-110(T), DTA-112, DTA-115, DTA-116, DTA-117, DTA-145, DTA-160, DTA-545, DTA-2144, DTA-2145, DTE-3100, DTU-205, DTU-245

PC Requirements

Platform	Windows XP/2k3/Vista/2k8/7, 2GB
Processor	Core, Core 2, Core i7

Ordering Information

Type	Description
DTC-315-SD	Standard-Definition encoding
DTC-315-HD	High-Definition encoding
DTC-315-MB	Mobile-TV encoding

Back to content

DTC-320 StreamXpert

Transport-Stream Analyser Software

Features

- Real-time analysis, monitoring and recording of MPEG-2 transport streams
- Provides detailed statistics on PIDs, services and tables found in the transport stream
- Deep decoding of PSI, DVB-SI, DVB-RCS and ATSC-PSIP tables and descriptors
- User-definable TR 101 290 templates
- Integrated SD/HD video and audio decoder with support for MP2 / H.264 / VC-1 (upgrade option) video and MP1 / MP2 / (HE-)AAC / AC3 audio
- Support for analysing TSoIP streams via a DTA-160 or a local network adapter
- The world's most cost-effective and user-friendly MPEG-2 transport-stream analyser

Applications

- Test and validation of equipment with transport-stream output, e.g. multiplexers
- Quality monitoring of MPEG-2 transport streams in studios, head ends, etc.

Supported Input Adapters

Signal Type	Supported Adapters
DVB-ASI	DTA-124, DTA-145, DTA-160, DTA-2142, DTA-2144, DTA-2145, DTA-2160, DTU-225, DTU-245, DTE-3120
DVB-SPI	DTA-2142
Receivers	DTA-2135, DTA-2136, DTA-2137, DTA-2139, DTU-234, DTU-235, DTU-236
TSoIP	DTA-160, DTA-2160, PC NIC

PC Requirements

Platform	Windows XP/2k3/Vista/2k8/7
Processor*	PIII (without live decoding) P4@1.7Ghz (SD-decoding) Core 2, Core i7 (HD-decoding)

* Or equivalent AMD processor

Related Products

Type	Description
DTC-335-SY	*SdEye* SDI analysis software
DTC-345-DVB+	*DVBAnalyzer* advanced analysis
DTC-350-PRO	*VISUALmpeg* MPEG/AVC video ES and quality analyser

Ordering Information

Type	Description
DTC-320-SX	*StreamXpert* TS analyser
DTDONG-1-SX	*StreamXpert* for PC NIC (dongle)
DTC-390-VC1	VC1 decoder option

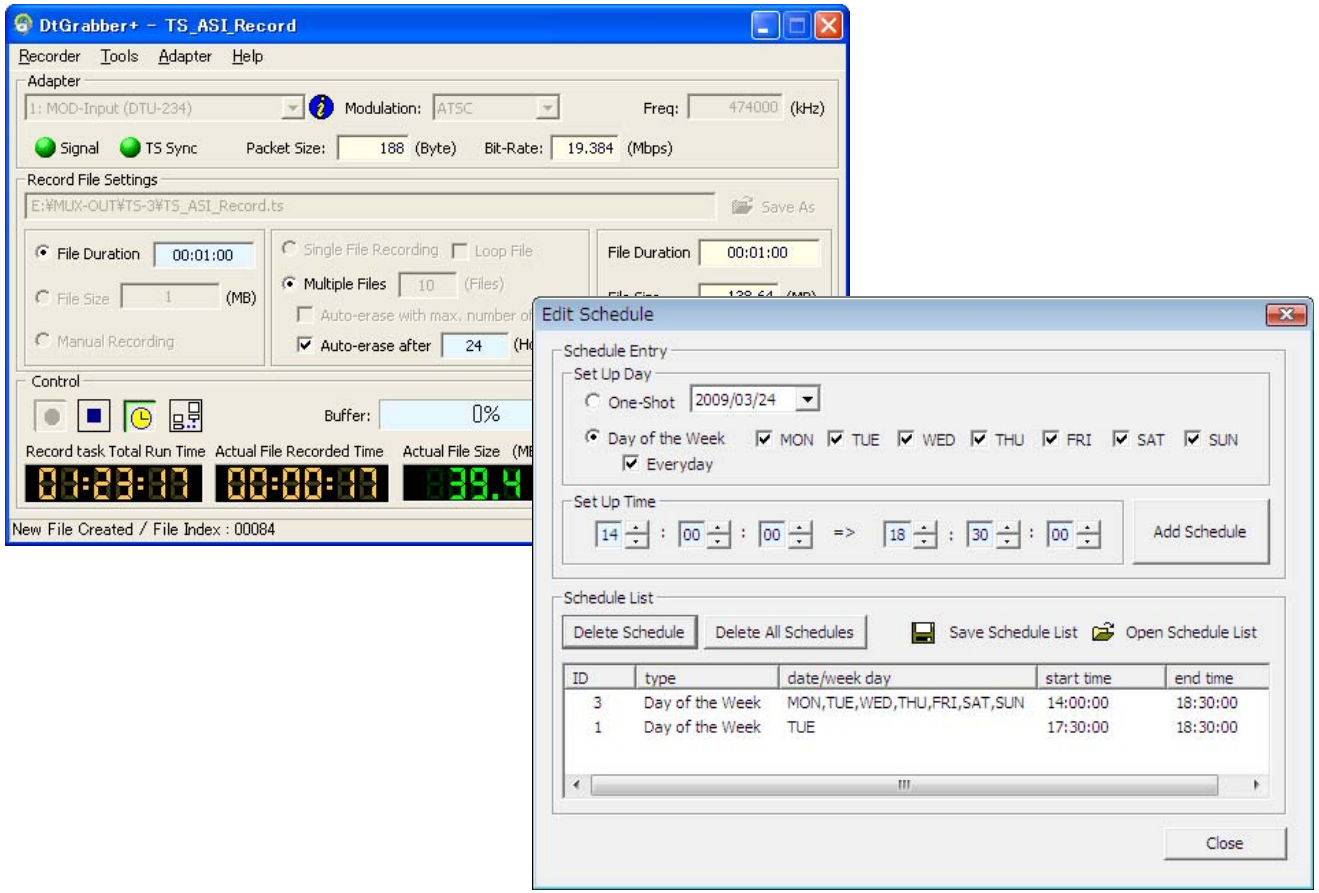
Back to content

DTC-325 DtGrabber+

Advanced Transport-Stream/SDI Recorder Software

Features

- Recording of MPEG-2 transport streams or SDI signals
- Supports all DekTec input adapters
- Scheduled and continuous 24/7 recording
- Multi-file functions:
  - Erase files older than X hours
  - Maximum number of files
  - Timestamp/index in filename
- Remote monitoring and control through SNMP
- Select PIDs to record, with range support, positive/ negative filtering and null-packet dropping
- Record into single or multiple files
- Advanced looped recording of the last X seconds, minutes or hours
- SDI recording: 8 or 10 bits, full frame or video only, Huffman compression on/off
- Limit record-file size on basis of maximum duration (e.g. 60sec), maximum size (e.g. 10GB) or record until stopped
- Disk-space monitoring
- Message logging and SNMP traps
- Merge tool for combining several files



Applications

- General-purpose capturing tool
- Advanced recorder solutions
- Archiving of broadcast streams

Supported Input Adapters

Signal Type	Supported Adapters
DVB-ASI	DTA-124, DTA-145, DTA-160, DTA-545, DTA-2142, DTA-2144, DTA-2145, DTU-225, DTU-245, DTE-3120
DVB-SPI	DTA-122, DTA-2142
Receivers	DTA-2135, DTA-2137, DTU-234, DTU-235, DTU-236
TSoIP	DTA-160

PC Requirements

Platform	Windows XP/2k3/Vista/2k8/7
Disk	7200rpm (capturing <120 Mbit/s) 15000rpm or striped (>120Mbit/s)

Ordering Information

Type	Description
DTC-310-DP	Bundle of *DtTV* and *DtGrabber+* (DP)

Back to content

DTC-330 DtTV

Transport-Stream/SDI Television Software

Features

- Live decoding of unscrambled services from a transport stream
- Supports all DekTec input devices
- Intuitive user interface, enabling easy zapping between service, control of audio volume and brightness level, and input device selection
- Decoding of multiple television services in parallel, for creating a mosaic
- Decoding of AC3 audio
- Decoding of H.264 (AVC) video
- Decoding of HD video; High-end CPU and graphics card required
- Operation up to maximum DVB-ASI bitrate (214Mbit/s)
- Displaying of SDI serial digital video

Licensing

- *DtTV* is part of the -DP bundle, e.g. DTU-225-DP contains *DtTV* license
- Free for users of *StreamXpert* (DTC-320): *DtTV* software can be run with a DTC-320 license

Applications

- Demonstrations where a decoded picture is required
- Mosaic generation
- Tool for quick visual verification of the services available in a transport stream

Supported Input Adapters

Signal Type	Supported Adapters
DVB-ASI	DTA-124, DTA-145, DTA-160, DTA-545, DTA-2142, DTA-2144, DTA-2145, DTU-225, DTU-245, DTE-3120
DVB-SPI	DTA-122, DTA-2142
Receivers	DTA-2135, DTA-2137, DTU-234, DTU-235, DTU-236
TSoIP	DTA-160

PC Requirements

Platform	Windows XP/2k3/Vista/2k8/7
Processor*	P4@1.7Ghz (SD-decoding) Core 2, Core i7 (HD-decoding)

* Or equivalent AMD processor

Ordering Information

Type	Description
DTC-310-DP	Bundle of *DtTV* and *DtGrabber+* (DP)

Back to content

DTC-335 SdEye

Real-Time SDI Waveform Monitor

Features

- Cost-effective real-time waveform analyser for SMPTE 259M/C signals
- Displays picture, HANC/VANC data presence, YCbCr waveforms, vectorscope and peak meter
- Different picture display modes: interlaced, top- or bottom-field only, top and bottom field, full SDI frame
- User can select whether he wants to display Y, Cb and/or Cr components in the picture
- Line selector for viewing a single line
- Graphs can be individually enabled or disabled
- Full-screen mode
- Contemporary GUI with quick access buttons and user-selectable window layout
- Supports all of DekTec's SDI capable adapters including bus-powered USB-2 units for portable SDI monitoring

Applications

- Cost-effective SDI monitoring

Key Attributes

Parameter	Value
Input Signal	SMPTE 259M/C

PC Requirements

Platform	Windows XP/2k3/Vista/2k8/7
Processor*	P4@3.0Ghz Core 2, Core i7

* Or equivalent AMD processor

Supported Input Adapters

Bus	Supported Adapters
PCI	DTA-124, DTA-145, DTA-160
PCI Express	DTA-2142, DTA-2144, DTA-2145, DTA-2148, DTA-2152, DTA-2160
USB-2	DTU-225, DTU-245

Ordering Information

Type	Description
DTC-335-SY	*SdEye* SDI Waveform Monitor

Back to content

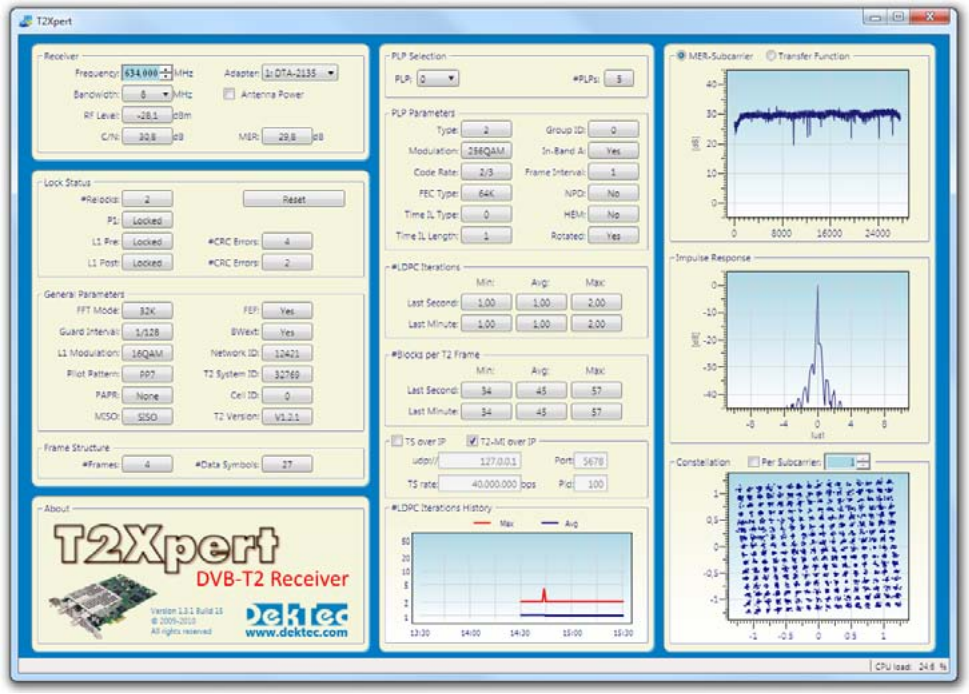
DTC-342 T2Xpert

Features

- Real-time application for demodulating DVB-T2, displaying signalling information and outputting a demodulated Transport Stream on UDP
- Uses RF frontend, tuner and A/D converter of DekTec's DTA-2135 diversity DVB-T receiver card
- Measures RF level, C/N and MER
- Gathers statistics about number of LDPC iterations required to correct all errors and displays LDPC iterations history in a graph
- Shows Constellation per PLP or Subcarrier, Impulse Response, MER per PLP and Transfer function graphs
- Includes DtTV for decoding and viewing Transport Stream on UDP
- Includes DtGrabber+ for recording Transport Stream on UDP
- T2-MI output on UDP for obtaining all PLPs in parallel

Applications

- DVB-T2 demonstrations
- DVB-T2 field trials



Parameters Displayed In Gui

Group	Parameters
RF	RF level, C/N, MER
Lock Status	P1, L1 pre, L1 post, #CRC errors
General	FFT, GI, L1 mod, Pilot pattern, FEF, BWext, PAPR, MISO, Network ID, Cell ID, System ID, T2 Version
Per PLP	Type, Group ID, Code rate, FEC, Rotated, Modulation, In-band, HEM, Frame itv, NPD, TI type, TI len

PC Requirements

Platform	32/64-bit Windows XP/Vista/7, 2GB RAM
Processor	Intel Core i7 920 (2.66Ghz)

Related Products

Type	Description
DTA-115	Multi-standard VHF/UHF modulator
DTU-215	Multi-standard VHF/UHF modulator for USB
DTA-2135-DP	Dual/diversity DVB-T receiver with *DtTV* and *DtGrabber+*
DTC-378-T2	DVB-T2 modulation option for DTA-115 and DTU-215

Ordering Information

Type	Description
DTA-2135-T2	DTA-2135 with *T2Xpert, DtTV* and *DtGrabber+*

Back to content

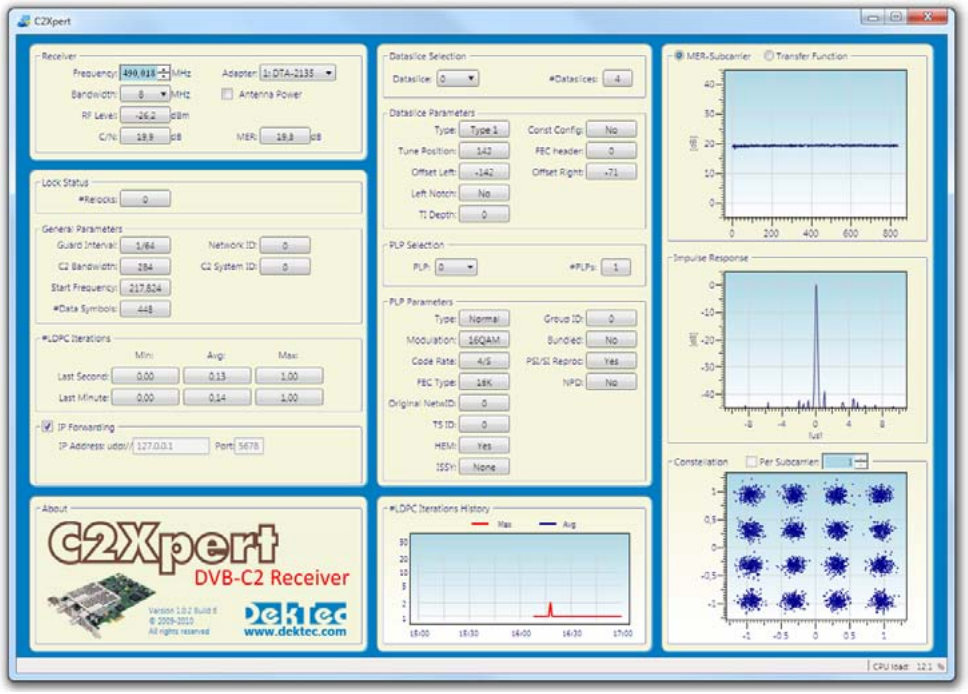
DTC-343 C2Xpert

Features

- Real-time application for demodulating DVB-C2, displaying signalling information and outputting a demodulated Transport Stream on UDP
- Uses RF frontend, tuner and A/D converter of DekTec's DTA-2135 diversity DVB-T receiver card
- Measures RF level, C/N and MER
- Gathers statistics about number of LDPC iterations required to correct all errors and displays LDPC iterations history in a graph
- Shows Constellation per PLP, Impulse Response, MER per PLP and Transfer function graphs
- Includes DtTV for decoding and viewing Transport Stream on UDP
- Includes *DtGrabber+* for recording Transport Stream on UDP

Applications

- DVB-C2 demonstrations
- DVB-C2 field trials



Parameters Displayed In Gui

Group	Parameters
RF	RF level, C/N, MER
General	GI, C2BWt, Start Freq, #Data Symb, Network ID, System ID
Per Dataslice	Type, Const conf, Tune Pos, FEC header, Offset left/right, Left notch, TI Depth
Per PLP	Type, Group ID, Code rate, FEC, Modulation, In-band, HEM, NPD, Bundled, PSI/SI reproc, TS ID, ISSY

PC Requirements

Platform	32/64-bit Windows XP/Vista/7, 2GB RAM
Processor	Intel Core i7 920 (2.66Ghz)

Related Products

Type	Description
DTA-115	Multi-standard VHF/UHF modulator
DTU-215	Multi-standard VHF/UHF modulator for USB
DTA-2135-DP	Dual/diversity DVB-T receiver with *DtTV* and *DtGrabber+*
DTC-379-C2	DVB-C2 modulation option for DTA-115 and DTU-215

Ordering Information

Type	Description
DTA-2135-C2	DTA-2135 with *C2Xpert, DtTV* and *DtGrabber+*

Back to content

DTC-345-DVB+

DVBAnalyzer Advanced Transport-Stream Analyser

Features

- DVBControl's DVBAnalyzer with -TP and -OD options (other options on request)
- In-depth analysis of DVB Transport Streams, from high-level overviews down to bit-stream compliance and timing details
- Numerous specialised views show detailed information about services, service components and SI / PSI / PSIP
- Teletext decoder and statistical views
- Real-time DVB subtitle decoder
- DSM-CC data carousel viewer
- Selective analysis with filters for sections, PES, video, audio, referenced, unreferenced, locked, unlocked or ghost PIDs
- Export single or multiple PIDs as ES / PES / PS / section / data, sections as text or XML and thumbs or teletext as images
- Grid, bars, time, pie and stacked real-time graphical presentations of bitrates and PIDs
- Video thumbs overview
- TR 101 290 DVB compliancy testing
- Display of PCR frequency and precision
- Visualisation of Electronic Program Guide (EPG) in service and time dimension
- Hex Viewer
- In-depth bit-field representation view of section-, audio-, video-, teletext- and DSMCC payload
- Retransmit services via UDP Multicast

Applications

- The powerful analysis and decoding features of DVBAnalyzer help developers, broadcasters, system integrators and field operators during maintenance, development and testing of DVB equipment, networks and services

Supported Input Adapters

Bus	Supported Adapters
PCI	DTA-145, DTA-160
PCI Express	DTA-2135, DTA-2144, DTA-2145
USB-2	DTU-225, DTU-245

PC Requirements

Platform	Windows XP/2k3/Vista/2k8/7, 512MB
Processor*	Core 2, Core i7

* Or equivalent AMD processor

Ordering Information

Type	Description
DTU-245-DVB+	Bundle of DTU-245-DP with *DVBAnalyzer*
DTC-345-DVB+	*DVBAnalyzer* software upgrade

Back to content

DTC-378 T2Xpress

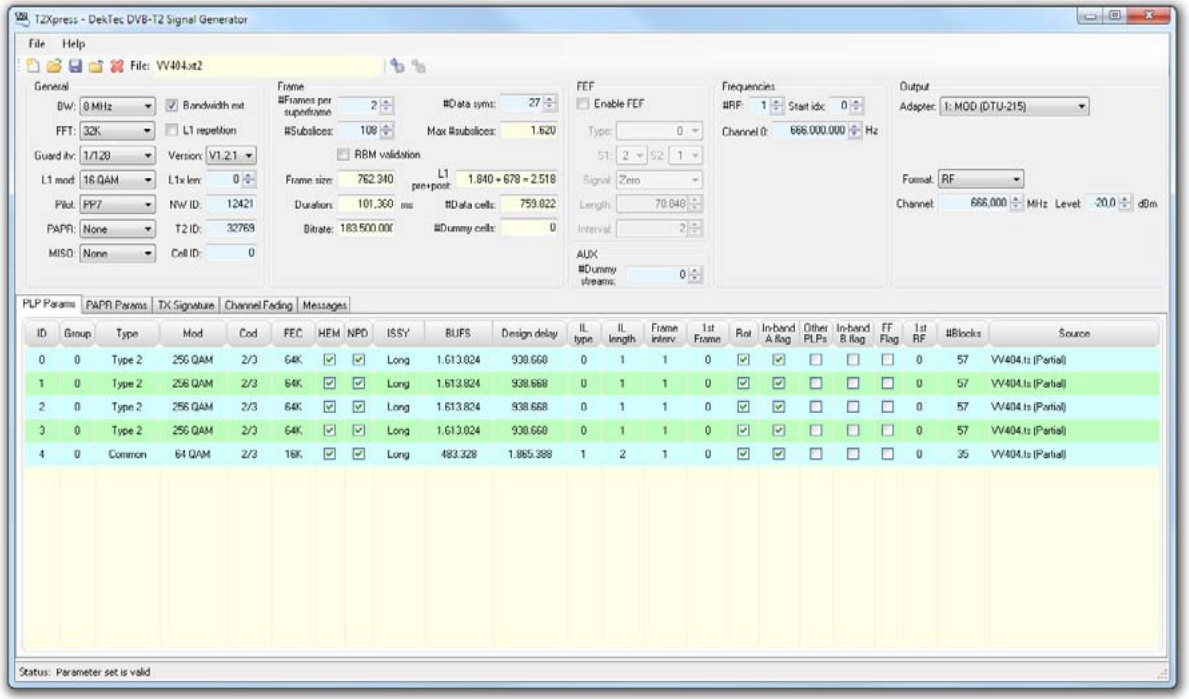
DVB-T2 Signal Generator Software

Features

- Complete multi-PLP DVB-T2 modulator with full user control over general DVB-T2 parameters, T2-Frame structure and parameters per PLP
- Receiver Buffer Model (RBM) validation and corner cases stream generation with real video
- "Big-TS-splitter" function with SI processing for easy generation of multi-PLP streams with a common PLP from a standard Transport Stream
- Input from Transport-Stream files, built-in O151 PRBS generator or DVB V&V stream generator model
- Support for PAPR
- MISO simulation: Generation of I/Q sample files for both MISO transmitter signals with optional independent channel modelling of each signal
- Can be used in conjunction with DekTec's DTC-305-CM XpressSim channel simulator with AWGN generator (adjustable SNR), multipath fading, Rayleigh channels and Doppler simulation to accurately simulate reflections and a moving receiver

Applications

- Test-signal generator for DVB-T2 receiver chip development, testing and evaluation
- Signal generator for DVB-T2 receiver demonstrations and field trials



Supported Output Adapters

Output Format	Adapters / Format
RF	DTA-111, DTA-115, DTA-116, DTA-117, DTA-2111, DTU-215
I/Q samples* in file	Float32, Int16, Text
Real-time T2-MI	All DekTec adapters supporting ASI or TSoIP
T2-MI in file	TS
Test point data* in file	TPs: 3, 4, 6, 8, 9, 11, 12, 15, 16, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34, 50, 51 and 53

* Requires DTC-371-IQ option

PC Requirements

Platform	Windows XP/2k3/Vista/7/2k8
Processor*	P4@2.0GHz (off-line mode) Core 2, Core i7 (real-time)

* Or equivalent AMD processor

Related Products

Type	Description
DTC-305-CM	*XpressSim* channel-modelling option
DTC-371-IQ	I/Q sample generation option

Ordering Information

Type	Description
DTC-378-T2	*T2Xpress* DVB-T2 signal generator software

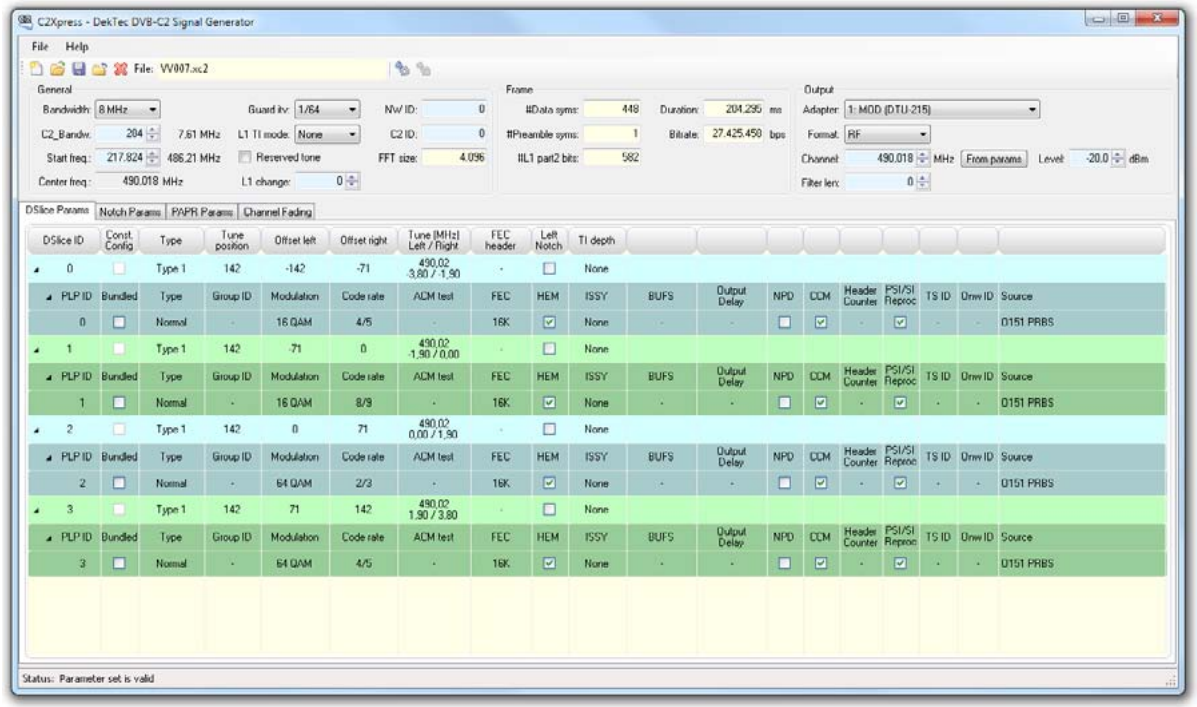
Back to content

DTC-379 C2Xpress

DVB-C2 Signal Generator Software

Features

- Complete DVB-C2 modulator with file input and DVB-C2 RF output on e.g. DTA-115
- With DekTec's DTC-371-IQ option: Off-line generation of I/Q sample files
- Full user control over general DVB-C2 parameters, Data Slice parameters and parameters per PLP
- Input from Transport-Stream files or built-in O151 PRBS test-signal generator
- "Big-TS splitter" function with SI processing for easy generation of multi-PLP streams with a common PLP
- Can be used in conjunction with DekTec's DTC-305-CM XpressSim channel simulator with AWGN generator (adjustable SNR), multipath fading to accurately simulate reflections
- Adaptive Code and Modulation (ACM) support for the generation of streams with variable coding and modulation
- Optional generation of DVB-C2 Test-Point data



Applications

- Test-signal generator for DVB-C2 receiver chip development, testing and evaluation
- Signal generator for DVB-C2 receiver demonstrations and field trials

Supported Output Formats

Output Format	Adapters / Format
RF	DTA-111, DTA-115, DTA-116, DTA-117, DTA-2111, DTU-215
I/Q samples* in file	Float32, Int16, Text
Test point data* in file	TPs: 1, 7, 8, 10, 13, 15, 18, 20, 22, 26, 27, 31, 32, 33, 37, 40, 41 and 42

* Requires DTC-371-IQ option

PC Requirements

Platform	Windows XP/2k3/Vista/7/2k8
Processor*	P4@2.0GHz (off-line mode) Core 2, Core i7 (real-time)

* Or equivalent AMD processor

Related Products

Type	Description
DTC-305-CM	*XpressSim* channel-modelling option
DTC-371-IQ	I/Q sample generation option

Ordering Information

Type	Description
DTC-379-C2	*C2Xpress* DVB-C2 signal generator software

Back to content

DTC-700 MuxXpert

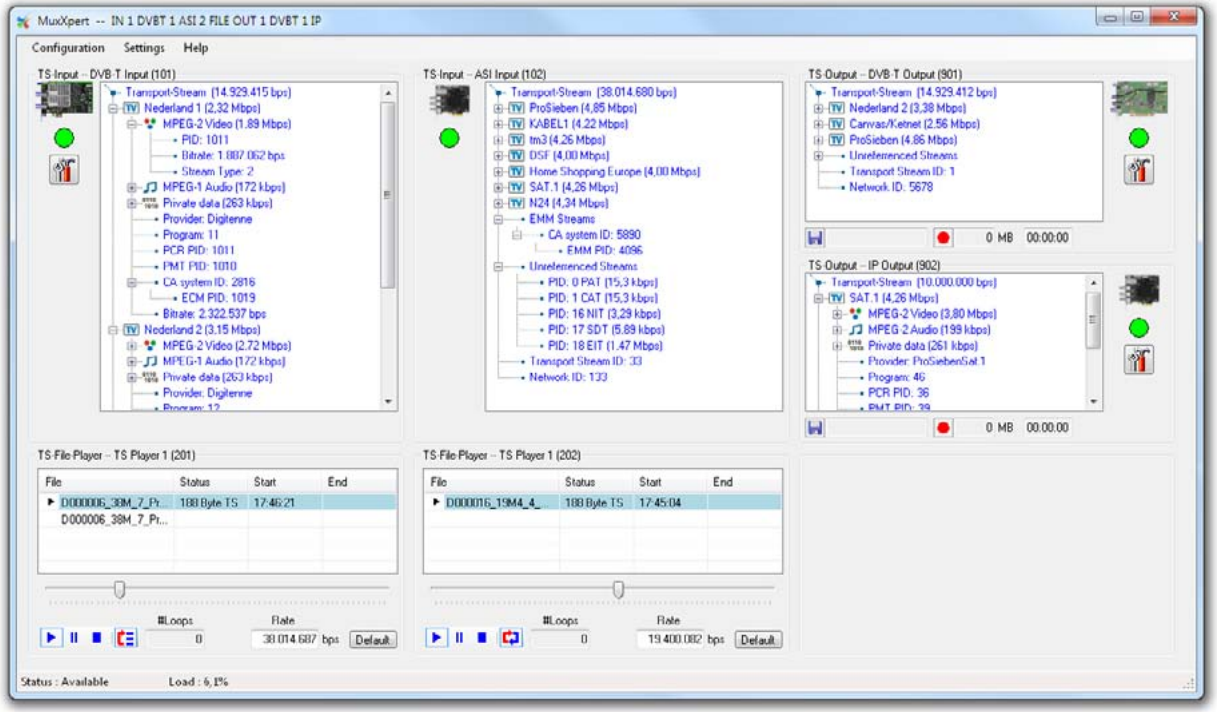
Real-Time Multiplexer

Features

- Real-time multiplexing and re-multiplexing of live transport streams
- Integrated file players for the insertion of local content from disk into live streams
- Allows re-multiplexing of services and service components from any input to any output
- Automatic PSI and DVB-SI extraction, re-generation and insertion
- Recording of output transport stream
- Monitoring, control and programmatic access to the configuration through the *MuxXpert API*
- Runs on a standard- or industrial PC with all DekTec input and output adapters
- Flexible configuration allows adaptation of PIDs, services, tables, descriptors, etc.
- User interface provides information about services, components and bitrates in the input and output transport streams

Applications

- Master and head-end (re-)multiplexing
- Local program insertion
- Generating transport-stream bouquets
- Creation of fully customized transport streams from files and live feeds


MuxXpert -- IN 1 DVBT 1 ASI 2 FILE OUT 1 DVBT 1 IP
Configuration
Settings
Help
TS Input - DVB-T Input (101)
TS Input - ASI Input (102)
TS Output - DVB-T Output (901)
TS Output - IP Output (902)
TS File Player - TS Player 1 (201)
TS File Player - TS Player 1 (202)
Status : Available
Load : 6,1%

Key Attributes

Parameter	Value
Number of TS inputs	0 .. 64*
Number of TS outputs	1 .. 64*
Number of file players	0 .. 32*
Sum of input rates	0 .. 300Mbit/s
Sum of output rates	0 .. 300Mbit/s

* Not all combinations are allowed and depend on CPU speed and RAM. A limited number of channels are shown in the UI.

PC Requirements

Platform	Windows XP/2k3/Vista/Win7 1GB .. 4GB
Processor*	P4@3.0Ghz, Core (2), Core i7

* Or equivalent AMD processor

Supported I/O Adapters

Bus	Types
PCI	All DekTec PCI adapters
PCI Express	DTA-2111, DTA-2135, DTA-2137, DTA-2144, DTA-2145, DTA-2160
USB	DTU-215, DTU-245*
IP	DTE-3100, DTE-3120, Local NIC

* For evaluation and demos, not recommended for operational use.

Ordering Information

Type	Description
DTC-700-MX	*MuxXpert* MPEG-2 multiplexer
DTDONG-1-MX	*MuxXpert* license on a USB dongle*

* For using MuxXpert with DTE-3100/3120 and/or local NIC.

Back to content

DTC-706 MuxXpert SDK

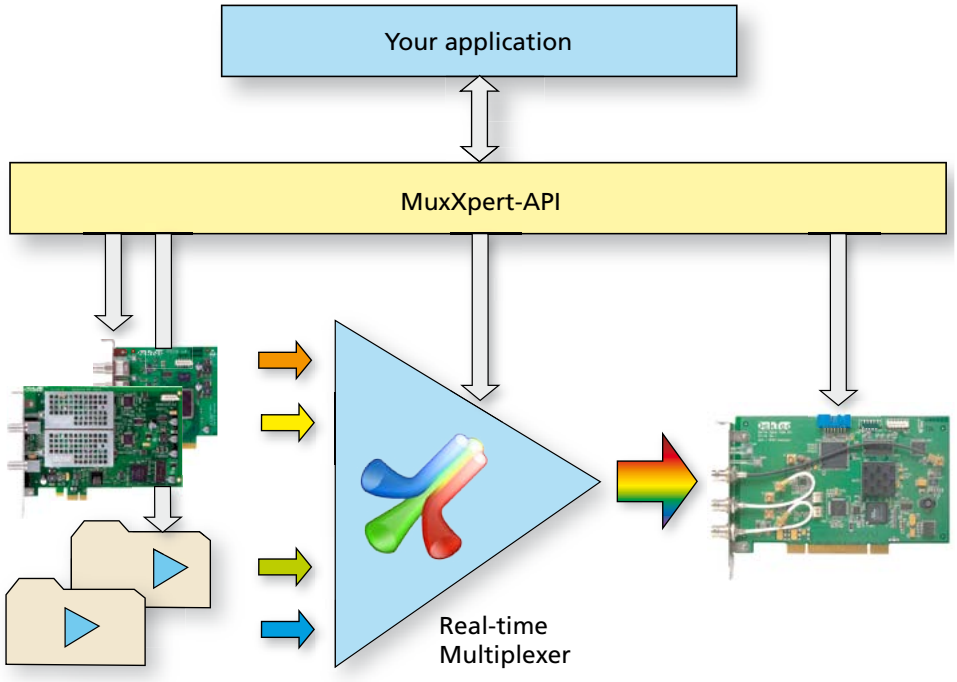
SDK for Creating Custom Multiplexing Applications

Features

- The MuxXpert SDK is a development kit for the embedding of real-time multiplexing functions in your custom application
- The classes can be used to create custom:
  - Service and component selection
  - SI processing
  - Remote control
  - User interface
- Provides all functions of the MuxXpert: re-multiplexing of services and components, querying the structure of transport streams, SI extraction, table cycling, adaptation of PIDs, services, tables and descriptors
- Runs on a standard- or industrial PC with all DekTec input and output adapters
- Can be used from any .NET language such as C++/CLI, C# or VB.NET
- Location transparency: The real-time multiplexing functions running on one PC can be used from anywhere on the network
- MuxXpert SDK consists of one DTC-700-MX MuxXpert license, one DTC-705-MR run-time license, manual and help file, merge module and four hours of premium support

Applications

- Re-multiplexer with custom SI processing
- Electronic Program Guide inserter
- Generation of MuxXpert configuration files



Key Attributes

Parameter	Value
Number of TS inputs	0 .. 64*
Number of TS outputs	1 .. 64*
Number of file players	0 .. 32*
Sum of input rates	0 .. 300Mbit/s
Sum of output rates	0 .. 300Mbit/s

* Not all combinations are allowed and depend on CPU speed and RAM.

PC Requirements

Platform	Windows XP/2k3/Vista/Win7 1GB .. 4GB
Processor*	P4@3.0Ghz, Core (2), Core i7

* Or equivalent AMD processor

Supported I/O Adapters

Bus	Types
PCI	All DekTec PCI adapters
PCI Express	DTA-2111, DTA-2135, DTA-2137, DTA-2144, DTA-2145, DTA-2160
USB	DTU-215, DTU-245*
IP	DTE-3100, DTE-3120, Local NIC

* For evaluation and demos, not recommended for operational use.

Ordering Information

Type	Description
DTC-705-MR	*MuxXpert* runtime license (1PC)
DTC-706-MS	*MuxXpert* SDK

Back to content

DTC-720 Xpect

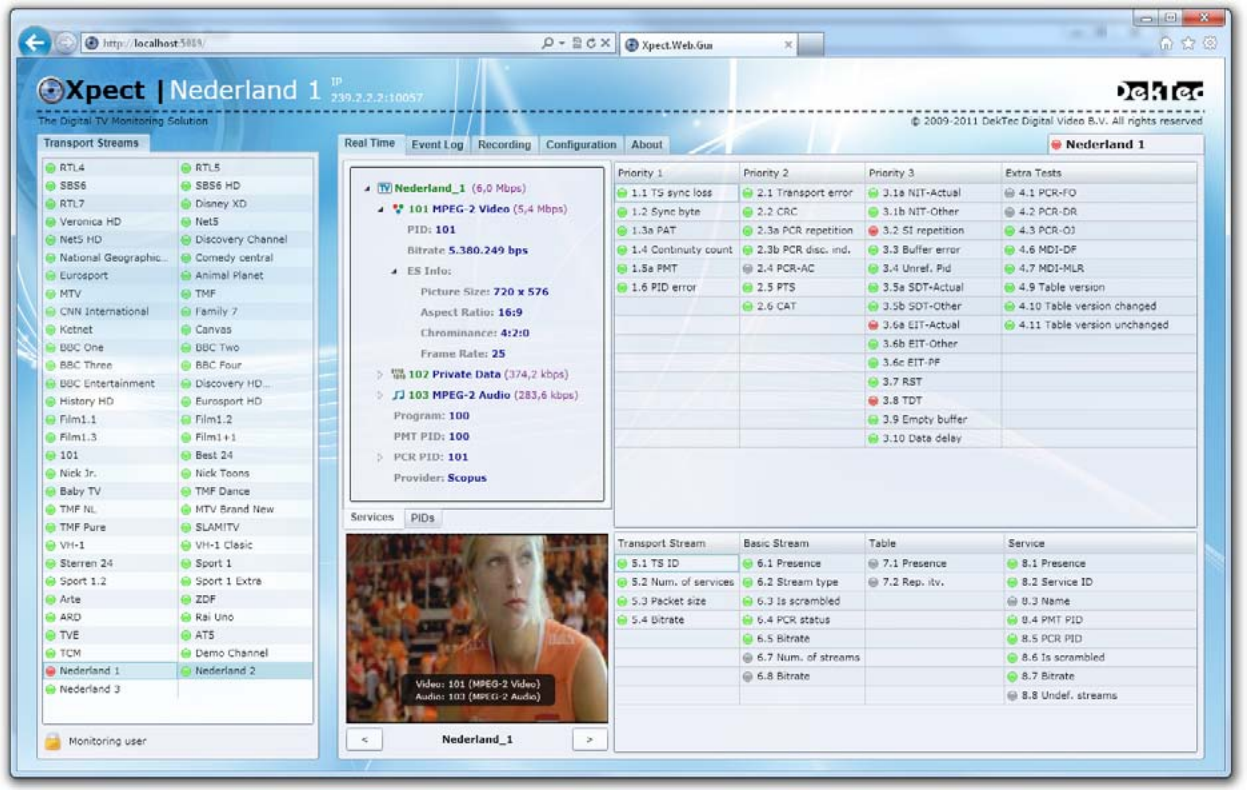
24/7 Transport-Stream Monitoring Software

Features

- Simultaneous monitoring of multiple MPEG-2 transport streams
- Web interface supports live video and audio decoding
- Full TR 101 290 conformance testing
- Template Matching: Checks properties of services, service components and tables
- Capturing of the monitored transport stream to a file, with pre- and post-trigger buffer, client initiated or triggered by a TR 101 290- or template violation
- Maintains detailed statistic information about bitrates, PCR and IP jitter and packet loss
- Can be integrated with 3rd party monitoring systems for 24/7 network supervision
- SOAP and SNMP interface for remote control and automated access to statistics and error-event database
- Web interface for remote configuration and access to event log and statistic information
- Includes configuration tool for easy creation of templates and TR 101 290 profiles
- Forwarding of transport stream over IP for remote real-time analysis or viewing

Applications

- 24/7 Network supervision
- Automated equipment test and validation



Supported Input Adapters

Signal Type	Supported Adapters
DVB-ASI	DTA-145, DTA-160, DTA-2160, DTA-2144, DTA-2145, DTU-225*, DTU-245*
DVB-SPI	DTA-2142
DVB-S/S2	DTA-2137
DVB-T	DTA-2135
QAM	DTA-2136, DTA-2139
TSoIP	DTA-160, DTA-2160

* For evaluation and demos, not recommended for operational use

Key Attributes

Parameter	Value
Typical #TS that can be monitored in parallel*	20 MPTS @ 75Mbps 50 MPTS @ 30Mbps 250 SPTS @ 6Mbps
Platform	64-bit Win XP/Vista/2k8/7

* Requires sufficiently powerful CPU and adequate memory

Ordering Information

Type	Description
DTC-720-*n*PT	*Xpect* monitoring, *n* points*

* Each SPTS Video requires 1/2 point; each SPTS Audio requires 1/4 point, each MPTS requires 4 points

Back to content

DTAPI

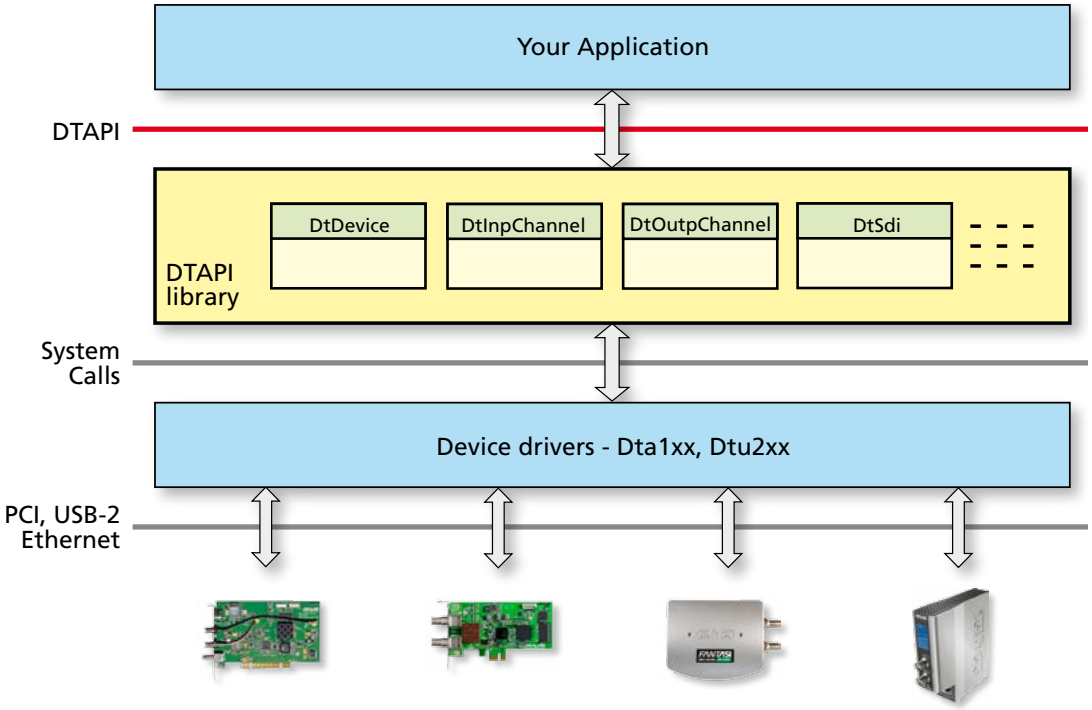
Uniform API for DekTec Digital Video Adapters

Features

- Common C++/.NET interface to DekTec's line of digital-video interface adapters
- Applications written for one device will work for any other DekTec device
- Encapsulates the device-driver layer in an easy-to-use object-oriented interface
- Access to all hardware features from user-mode programs
- High efficiency; no need to resort to kernel-mode programming to achieve real-time operation
- Same API classes and methods can be used for PCI, PCI Express, USB-2, PC-104-Plus and networked devices
- Same API classes and methods can be used on Windows and Linux
- Packaged in a C++ header file (to be included in your C++ project) and a library (to be linked to the application)
- Free download
- Royalty-free redistribution in custom applications

Applications

- Creating custom applications with DekTec devices in a convenient way



Supported DekTec devices

Signal Type	Supported Adapters
DVB-ASI	DTA-100, DTA-105, DTA-120, DTA-140, DTA-145, DTA-160, DTA-2160, DTA-545, DTE-3100, DTE-3120
DVB-SPI	DTA-102, DTA-122, DTA-2142
ASI/SDI	DTA-124, DTA-145, DTA-2142 DTA-2144, DTA-2145, DTA-2148 DTU-205, DTU-225, DTU-245
Modulators	DTA-107(S2), DTA-110(T), DTA-111, DTA-2111, DTA-112, DTA-115, DTA-116, DTA-117, DTU-215
Receivers	DTA-2135, DTA-2136, DTA-2137, DTU-234, DTU-235
TSoIP	DTA-160, DTA-2160

PC Requirements

Platform	Windows 2k/XP/2k3/Vista 32/64 bit
Processor	Any x86 processor (IA-32, x64)

Main Classes In DTAPI

Class	Represents
DtDevice	DekTec device
DtInpChannel	Input channel
DtLoop	Looping from input to output
DtOutpChannel	Output channel
DtSdi	SDI helpers

Back to content

Distributors

DekTec products are shipped worldwide. Please direct any commercial enquiries or formal quotation requests to the appointed distributor in your country. A list of officially appointed distributors is provided in the contact section of our website. If no distributor is listed for your country, you can email directly to info@dektec.com.

Open Pricing

DekTec operates an open pricing policy. You can find the latest prices of each product on our website. Distributors shall not charge a price that exceeds the DekTec published price, but please beware that local prices may slightly exceed the published prices to account for customs duties and currency exchange-rate fluctuations.

Credit Card Payment and Shipment

For urgent product requirements, DekTec accepts payment by credit card (VISA and MasterCard). Shipment is worldwide by FedEx International Priority shipment, or by your preferred courier.

DekTec - The OEM Supplier

DekTec is a leading supplier of OEM components for integration in your solution. DTAPI, DekTec's critically acclaimed SDK, provides comprehensive support that reinforces the OEM-friendly nature of our products. We provide the SDK free of charge without NDA or complex registration requirement.

Extensive Range

Most of DekTec's product range in this catalogue is suitable for OEM, including the USB products that can be supplied as an assembled PCB board only. By keeping the products standard we can keep the cost of the OEM low, along with immediate stock availability.

DekTec's OEM minimum order = 1

For integrators and OEM's requiring small quantities, e.g. for development of your solution or for a test run, DekTec units are available in single quantity immediately from stock.

Custom Branding

We will consider custom branding to meet specific OEM client requirements, subject to a minimum order quantity.

Warranty

DekTec's hardware is supported with a no-quibble two-year worldwide warranty. This period can be optionally extended up to seven years to provide added assurance in your critical applications.

DekTec Software

DekTec software is supplied on a USB-2 flash drive* and via the Downloads section on our website. We provide a utility program DtInfo to help checking proper installation, licensing information, serial numbers and driver version numbers. DtInfo can also be used to install newly purchased licenses. Software upgrades are available freely for a period of one year after purchasing.

* supplied when hardware and software is purchased together.

A good traveler has no fixed plans,
and is not intent on arriving.

Lao Tzu

www.dektec.com

DekTec Digital Video B.V. - Van Riebeeckweg 43A, 1212 EH Hilversum - The Netherlands
info@dektec.com - Tel: +31 35 6469210 - Fax: +31 35 6831015 - www.dektec.com

www.dektec.com

Back to content